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M. Stanback
1985

Hastings Reservation
Melanerpes formicivorous

1985 Mark Stanback

M. formicivorus

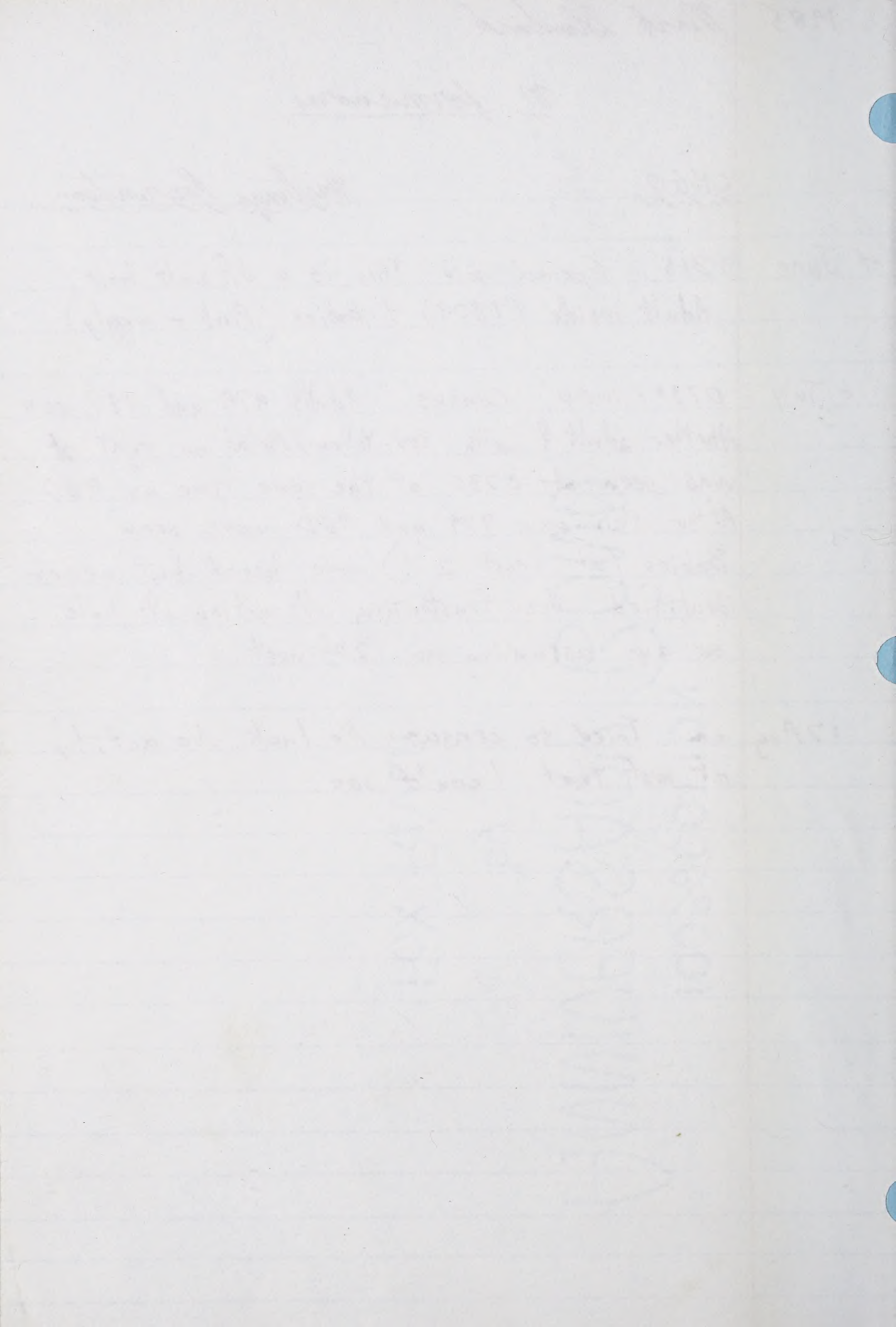
CHGO

Hastings Reservation

4 June 1315 Opened hole. This is a difficult hole.
Adult inside (980?) 4 babies. (Pink & wiggly)

6 July 0730 - 1000 Census. Adults 979 and 980 seen.
Another adult ♀ with Red-Yellow/Metal on right ~~side~~
was seen at 0730 at the same time as 980.
After this only 979 and 980 were seen.
Babies (at least 2?) were heard but never
identified. Very frustrating. No action at hole,
so am assuming no 2nd nest.

17 Aug am. Tried to census. No luck. No activity
at nest that I could see.



1985

Mark Stonlach

M. formicivorus

BUCK

Hastings Reservation

4 June 1200 Approached granary. Heard what I thought was imm. noises. Sev. birds flushed. Looked in granary & sev other trees for 2nd nest. No luck

13 June 0615 - 0745 Census. Saw 663, 665, 987 adults. Only one baby identified (1002). I don't know if there were others or not.
The birds

25 June 0830⁻⁰⁹¹⁵ begin census. Saw babies 1001, 1002, 1003. Saw adults 665, 987
Adult ♀ in nest that Walter checked the other day. Eggs here? Needs to be checked.

25 July 1300 Adult noise (2)
#

Saw 1153 1003

17 Aug a.m. tried to census. ~~nothing~~. Lots of acorns.
No activity at nest (that I could see)

1995 Mark Stanback
M. formicivorus

Plague Annex
Myiarchus cinerascens
21 May

Hastings Reservation

1850

1	54.00		150	micro	lt pink	bag	stan
2	48.90		150		white		Rei
3	51.65	l	150		mauve		
4	45.50	r	120		lt blue		⁴ ₃ me

12 June 1445-1545 Late stage nestling had head sticking^{out}
~~at~~ most of the time. It was the only baby fed -
I never saw any others. Both ♂♂ were there
and feeding. The ♀ however did not show up (?)
until 1545. During the hour I never saw or
heard more than 2 birds at any 1 time.

♂♂ : 723, 983

♀ : 818

25 June 0745-0815 saw/heard 0 birds. No
response to taped vocalizations

4 July 1330 saw/heard 0 birds. No action at old
nest or platform hole.

h

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M. formicivorus

PLQE

Hastings Reservation

18 June 1045 Saw baby 1068

12 July 1000 Single bird was mobbing a squirrel and vocalizing a single Karrit. It seemed to raise the pitch somewhat and then 4-5 other birds joined it in mobbing a squirrel

1100 Removed smaller of the two babies

Orange baby 67 (43)

removed " 47

I was attacked repeatedly (but never hit) by what I think was a single bird (of unk sex & ID)

16 July During today's nest watch, a baby (1067) fed one of his nest mates that had climbed into the 2nd nest and was food begging

18 July During today's nest watch 1067 repeatedly fed the small babies in the group's 2nd nest. However, this baby would also go into this nest to be fed by adults.

17-18 Aug Census: 521, 721, 973, 984, 1068, 1069, 1070, 1071, 1149, 1150, 723, 1089, 1090

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M. formicivora

PLQE

HNHR

26 Oct 0830-0930 10 521, 721, 973,
984, 1068 ?(?), 1069, 1071, 1150, 723

Do certain birds store in the telephone pole
more than others?

1985 Mark Stanback
M. formicivorus

Moonshine

Hastings Reservation

School Hill

N of where creek crosses road gate
on ridge immediately E of fence
SW of Mark R. house

~~1155~~

1155 PST heard woodpecker, found granary. Lots of holes
for roosting, nests. I count 7 ~~1~~ from where I now sit.

1205 Only one bird yet seen. Spooked and flew NE when
it noticed me. Not very many storage holes. Those
present (ie visible from where I now sit) without acorns.

1215 hear chrrrring to ESE

1218 tapping + vocal to E

1222 waka to SW

1223 2 birds heard waka to E

1225 1 bird close to W

1228

"

1335 I have been watching this group since about 1230
(At least) five birds have appeared at once. They are very
shy and ~~my~~ trees are thick here. ~~Of the two birds (?)~~

~~I~~ I only saw the legs of two (?) birds clearly.
(a ♀, a ♂, and a ♂ later) Neither of these birds
were banded. ♂ arrived with food in beak, ate later

1345 .35 miles W of the C.V. gate I saw a woodpecker
fly N overhead toward school hill

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Mark Stanlack
M. formicivorus

Moonshine

Hastings Reservation

- 25 May 1420 Found nest! On NE side of granary tree. In broken stump of former limb. ♂ was in nest (mostly ~~♂~~ with head out). ~~He stayed in nest for~~ ~~and~~ He was still in the nest when I left my location about 20 minutes later. (could this be baby?)
- 1430 Counted at least 4 birds coming in and vocalizing. Sounded upset. Was it me or scrub jays. Thus this group has at least 5 members (and probably 6) None of these others approached the nest at this time. Because of my position (under bush) I was not able to check the legs of any of the other birds
- 1450 Changed position to better view other group members. However, this prevented me from seeing nest. Actually, I don't remember seeing any birds approaching the nest limb. These birds are very shy and don't spend much time at the granary-nest. I did distinguish an unbanded ♀ (several times) and an unbanded ♂. These were the only birds I got a good look at.
- 1525 unbanded ♀ took insect bolus to nest. Unbanded ♂ chirred.

1985

Mark Stanback

M. ~~formicivorus~~

Moon

H/NHR

21 June 1730 checked for 2nd nest in granary.
No heads stuck out.

25 June 0515 - 0545 hid + watched granary, but
no birds came in. I only really saw
one baby (NOID) on a tree down the hill

6 July 1530 - 1730 Census? Saw only unbanded
♂ + ♀ (s). Heard at least 2 babies. They
don't hang out at nest tree. There's one tree
above this tree at the edge of the chap
that they (adults) seem to like. The babies
stayed down the hill (as low as the creek
and road.)

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M. formicivorus

Y

Hastings Reservation

2 June

1215: Began general observations of ~~nest~~ fledgling behavior. Baby pecked rotten wood (I saw chips flying). Baby cringed when bird passed overhead. I also saw a baby(?) hitch under a limb when a bird passed. Adult was working on an acorn, baby did not solicit for food. Instead adult would stop working, fly to the nearby branch where baby was exploring, search for the baby (who was investigating a smashed cavity), go inside, and feed it. This was repeated several times. Baby(s) seem very interested in a particular hole in a twisted tree on the knoll. They (it) look inside a lot but don't go in (they will stick head in).

1300 A baby was probing and preening on a snag. A squirrel walked up to it. The bird moved back a few steps. The baby did not vocalize any and did not seem frightened or upset. The squirrel moved away. Soon afterward an adult flew to the snag, looked about, and left. Its windy out - baby is very fluffed out - spending a lot of time preening. Sitting in sun. Lots of wing stretches. This baby has been preening for 15 min. An adult just flew to the baby and fed it, then left. Baby now exploring.

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M. formicivorus

Y
nn

Hastings Reservation

2 June 1320 adult just fed baby a 2-3 bolus.
1440 ♂ 754 fed one of the 2 babies on branch
1445 one baby pecked at the other and drove it from branch
1450 baby is exploring extensively with its tongue

15? June 1012, 1014, 1015 seen

11 July 1800 Banded babies.

1134 D. Green - L Green / L. Blue - L Pink
90242846 / L. Green - White 79.8 (64)

D. Blue - Red / 90242847
1135 White - Black / L. Blue - Black 84.6 (64)

1136 Orange - D Blue / Red - L Blue
Red - L Pink / 90242848 80.6 (58)

18 Aug 0700 - 0800 Census: antenna bird, 669,
754, 1012, 1014, 1134^(?), 1135, 1136

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M. formicivorus1800HNHR

22 June 1800 a baby flushed from nest

25 June 1030 checked nest. Empty

26 June 0530 no egg in nest

0602 193 to hole, flies

0605 193 into hole

0607 770 to hole, flies

0609 193 head out

0610 770 to hole, then into

0612 770 leaves alarmed

0614 193 almost leaves

0623 770 to hole, then into

193 leaves, then 770 leaves

Egg ~~22.45~~ ^{#1} 22.45 x 18.45


0740 193 into hole, then out w DAP

0742 770 into hole, then leaves

0744 193 into hole

0746 770 to hole, then flies

0746 193 leaves hole

0752 NOID ♀ with messy forehead and
a chin pattern like () into hole~~0754 770 into hole, then leaves~~

0755 770 to hole, then flies

0759 NOID ♀ leaves hole. Checked: still 1 egg

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M. formicivorus

1800

HNHR

- (26 June)
- 0842 787 into hole
- 0844 193 to hole. Looks inside.
Vocalizes alot. 787 pecks at her. More vocalizations. 193 hangs outside for about 1 min. or more, then flies off.
- 0904 193 and 770 to hole
193 flies away
770 into hole
193 returns and enters hole
- 0907 770 and 193 leave
- 0910 193 into hole
- 0911 771 to hole, then flies
- 0914 ♀ with small black triangle on forehead and no chin pattern leaves the hole
- 0918 NO10 ♀ into hole, Baby follows immediately (actually I don't know if the baby went in first or second) Seconds later a ♀, a baby, and another ♀ left the nest
- 0920 2 eggs in nest. See Missy Fleming's notes for measurements.

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Mark Starbuck

M. formicivorus1800HNHR

27 June

0530 check nest, 2 eggs

0600 770 into nest

193 to nest, but then flies away

0603 193 into nest, 770 out

0604 771 to nest, then flies

0606 193 sticks head out for 30 sec

0614 770 to nest, then flies

0616 193 sticks head out for 1 min

0617 770 to nest. Sits outside 1.5 min, flies

0622 770 into nest, 193 leaves, 770 leaves

0630 check nest New egg 23.2 x 18.9 (by 193)

0655 193 into nest

0702 770 to nest, flies

0709 770 to nest, sits outside 1 min, then goes in
193 leaves

0713 770 leaves

0723 193 into nest

0729 787 to hole. She is viciously attacked and knocked off the limb by an unidentified bird. Seconds later 771 lands at the hole, but doesn't go in. 193 leaves hole. Then 770 flies to the hole. 771 attacks 770, pecking him on the head and back (causing me to think he may have hit 787)

0731 771 then leaves. 770 goes into the nest.

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Mark Stanlack

M. formicivorus

1800

HVHR

- (27 June) 0733 770 leaves hole
0735 770 into hole
0737 770 attacks baby, but baby goes in anyway. 785 into nest then. 771 to hole and sits outside
0738 771 into nest
770 leaves nest
0740 771 sticks head out
0741 771 comes out but sits at hole
0742 771 into nest
0743 771 sticks head out
0747 baby leaves
0748 193 to hole and sits outside
785 leaves
0800 Check nest. New egg:
0815 770 into nest
0819 770 leaves
0829 193 into nest
0836 193 leaves, 770 enters nest
0841 770 leaves after vocalizing
0843 193 into nest
0909 770 into nest, 193 leaves
0911 193 into nest
0922 193 sticks head out for 2 min
0924 193 leaves, but sits at hole

<u>#</u>	<u>Date</u>	<u>Layer</u>	<u>Size</u>	
1	26	193	22.45 x 18.45	cracked
2	26	787	24.4 x 18.8	key?
3	27	193	23.2 x 18.9	
4	28	787?	23 x 18.4	bubble
5	28	193	23 x 19	
6	29	785	19.1 x 16.2	bubble
7	30	—	23.5 x 18.6	
8	1	—	24.2 x 18.4	bubble

1985 Mark Starbuck

M. formicivorus

1850

HVHR

28 June 0520 baby in the nest

0535 4 eggs in nest

#4 : 23×18.4

0612 193 into nest

0616 785 into nest

193 out of nest

0618 771 to hole, sits outside 2 min, ~~leaves~~

0620 771 leaves, ~~into nest~~

baby enters nest

0624 771 to hole, baby leaves

785 leaves

0630 no new eggs

0719 193 into nest

0724 193 leaves

0730 Egg #5: 23×19.0

(by 193)

29 June 0506 771 into

193 into

785 into (after being pecked by 193)

0514

193 out?
771 out

0517

193 in

785 out

0532 193 head out 2 min

0552 193 out

checked nest: no new eggs

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Mark Starbuck

M. formicivorus

1800

HNHR

(29 June)

0635 770 in

0640 193 in, then out

0644 770 head out

0652 770 head out for 2 min

0655 193 in, 770 out

0700 785 in, a ♀ out (193?)

0707 771 to nest, sit outside 1 min, looking in

0709 771 sat outside hole for 1 min, then
went inside, then came out

0726 a ♀ left nest (785?)

Egg #6 19.1 x 16.2 (runt) (785's)

0815 770 in

30 June 0455 pointy red on head ♂ in nest on arrival

0522 ♂ left, 193 puts head out, then pulls in

0526 193 and baby out

785 in

0530 193 in, 785 out

0535 - 0540 NO observations

0555 Egg #7 23.5 x 18.6. It had "dirt"

spots on it, making me think it had
been laid yesterday after the watch.

Walter blames a dirty repro tract

0622 770 in

0633 193 in, then out

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M. formicivorus

1900

HNHR

(30 June) 0635 771 in, 770 out
0645 193 in, 771 out
0653 193 out
0710 No new eggs
0718 770 in
0731 193 in, 770 out
0738 771 looks in, flies away
0747 193 head out 2 min, in 3 min, out
1 min, in 2 min, out 2 min.
0758 193 leaves nest
0759 771 into hole
0804 770 Flies to hole, but flies away
0805 785 into nest, 771 out
0809 770 to, 785 out, 770 in
Climbed - no new egg

(1 July) 0515 771 in nest when I arrive
0545 193 to hole, but flew away, 771 out
No 10 ♀ into hole (~~1010~~)
0548 No 10 ♀ out, 770 in
0555 Egg #8 (24.2 x 18.4)
Old looking egg
Eggs 4, 6, 8 lack air chamber
0620 770 to hole sat 1 min
771 arrives, but flew away

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M. formicivorus

1800

HNHR

(1 July)
~~0620~~ ~~0620~~

0620¹ 770 sits at hole for 1 min after
771 leaves, then enters hole at 0722

0630 193 in, then 770 sticks head out
for 10 min

0637 193 out, 771 flies to hole, then flies away

0709 771 in, 770 out

0711 785 to hole, sits outside
787 "

both birds then move about 1 foot from
nest, then 785 leaves,

0712 787 leaves

0717 193 in, 771 out

0723 193 out

0726 771 into

0730 193 to hole, looks in, flies away

0744 771 out

0746 193 in

0753 193 out

No new eggs

2 July 0500 No new eggs (pointy ♂ was inside 771?)

0530 770 in

0540 193 in, then out, then in, then out, then in

0545 770 head out for 2 min

0547 193 out, ♂(?) out

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M. formicivorus

1800

HNHR

(2 July) 0554 193 in, 770 out

0559 193 out

0600 771 in

0603 193 in

0605 771 out

0608 193 head out

0618 193 out

Check: no new eggs

0643 770 in

0650 771 flies to hole, then away

0653 785 in, 770 out

0658 193 flies to, looks in, flies away

0707 771 "

0724 770 in, 785 out

Check: no new eggs

0750 771 hangs at hole 2 min, then in

0809 770 to, 771 out, 770 in

0814 193 looks in, flies away

0816 193 in, 770 out

0819 785 to, then in. A ♂ then came out

0822 770 in, then out

0830 771 in, then out

0843 771 looks in, flies away. 787 looks in. 785 leaves. 787 sat outside hole. 771 to hole

787 fly away
771 inside ←

1985

Mark Stanback
M. formicivorus

Horsetail

Hastings

23 May

Near artificial granary between 1800 + Gate (Horsetail)

1500 Noticed woodpecker vocalizations (2 birds here)

1515 Twice a woodpecker has come down to gnarly oak at stream crossing. Once bird flew back NW with an acorn. Birds seem to be spending time up at the edge of the chaparral. Stayed until 1535, but never was able to get a good enough look at legs.

24 May

1405 heard some birds E of artificial granary. Heard one bird in "granary"

1415 saw + heard bird S of "granary" by stream crossing

1430 saw ♂ + ♀ on snag SW of stream crossing. ♀ flew to large oak just north of stream crossing. She seemed to be after acorns. The ♂ flycaught some also seemed to be working on an acorn at one point.

1448 sighted woodpeckers (2) in top of oak N of crossing. Both flew SW toward gate

1700 Have been watching all this time. Found nest 1 in broken off branch beside^(N) concrete creek crossing. At least (and probably just) 1 ♂ + 1 ♀ both unbanded. Probably on eggs. ~~They~~ Took turns (20 min) in nest. Never carried food to nest. ♂ stuck head out more often

1985 Mark Stanback

M. formicivorus

Horsetail

Hastings Reservation

4 June 0700 arrived to find about a dozen wild pigs,
no birds seen.

0730 still no birds. Sayonara.

5 June 1400 - 1500 Searched all likely trees for nest.
The holes Walter found in the artificial granary
are incomplete and apparently have not
been worked since Walter found them.
No birds seen or heard. House wren is
building nest in cavity by road that woodpeckers
abandoned.

8 June Thought I saw a bird near abandoned nest

9 June 1700 Heard 2 birds

10 June 0900 - 1030 Played a portion of a tape of Lucia; it
brought a bird in immediately. The only bird I
"identified" during a 1.5 hr period was an
unbanded ♀. I tried to see where the birds
came from +/or went to, but the only place
where a bird visited twice turned up nothing.
The bird(s) responded another time to the tape,
but a third time didn't respond. I stopped
using it. Bird(s) very shy.

11 June 1030-1040 no sign of birds

1985 Mark Starbuck

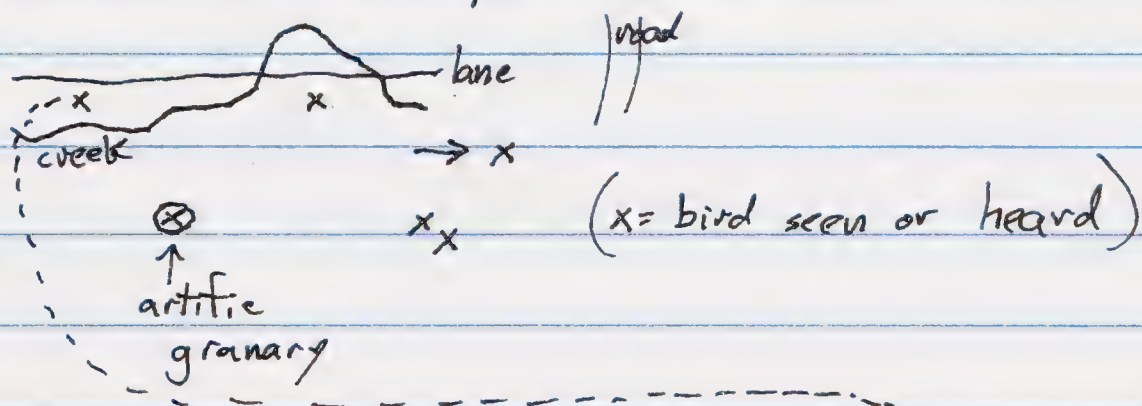
M. formicivorus

Horsetail

HNHR

19 June

Spent 2 hours here - the ♂ was seen in the artificial granary actually working on a piece of artificial granary. When he was there I heard a bird by the road lane and just slightly up from it. The male was also seen in the direction of the Gate but up on Haystack hill a bit at the edge of the chaparral - got it? Noye



20 June 0700 - 0800 Heard birds only once here. But oriole people came by to do veggie sampling, so the birds made themselves scarce.

22 June 1700 - 1745 No birds seen or heard.

23 June 1445 - 1510 No birds seen or heard

29 June 0830 - 0900 No birds seen or heard. No response to tape

1985 Mark Stanluck

M. formicivorus

H-13

Hasting Reservation

18 June 0830 Begin census. Saw birds 571, 604,
1083, 1084, 1086. That is, both
adults, and 3 of the 4 babies.

1000 end census

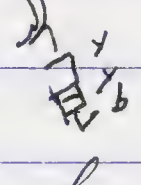
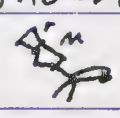

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Mark Starlack

M. formicivorus

BLM 1

Hastings Reservation

- 21 May 1150 arrive ^{809?} ♀ attentive at new hole 
 (hole near ground, in small tree NE of granary)
 1152 ♀ (same, lite bands on left) begins working on hole
 1201 ♀ still working, ♀ & ♂ appear near hole
 1207 ♂ has brown rt shoulder ⁴⁹², ♀ just sitting at hole
 1212 ♀ begins work again, other birds no longer visible
 1228 ♂ joins ♀ at nest - remains nearby, later leaves
 1235 another ♀ comes to nest tree, then flycatches back to gran
 1242 ♀ 809 leaves nest, returns to granary
 1257 ♂ attentive near nest hole for @ 5 min
 1331 3 birds (at least 1 a ♀) leave granary, fly toward new hole
 1 stops 3/4 way to it, another stops in hole tree, third
 goes beyond and the same distance again to knoll
 1338 ♀ w red on rite, lite color lower left tail in good condit
 Another ♀ seen minutes earlier & thought then to be 809 had
 tail end in poor condit, w only rachis showing
 1347 ♀ w d blue? on rite, red & m left  has bad tail 
 1350 This ♀ flew toward BLM 2 and out of sight (from granary)
 1353 good tail (Y & M? ^{Ym} ♀) ♀ in granary
 1355 bad tail ♀(?) lands beside good tail; vocalizations
 crouching, bad tail flies NW 200 yds, sits, disappears
 1402 492 identified in granary, good tail, brown rt shoulder
 1418 good tail ♀ ^{red} atop granary 809
 1435 ~~no defense by woodpeckers~~ ~~departed~~ ~~end observations~~ 6 starlings in granary tree, 2+ hover
 and land at cut hole on main trunk

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M. formicivorus

BLM 1

Hastings Reservation

22 May

1250 (P.S.T) arrive, no ♀ at hole

1255 809 working on new hole

1308 809 stops work on hole, returns to granary

1318 809 flies to new hole from granary, begins work

1325 Am leaving to check BLM 2, 809 still working

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Mark Stonback

M. formicivorus

BLM, 1
~~H. ...~~

Hastings Reservation

4 June

0745 arrived and heard wakas S of granary

0755 checked out the hole in lone tree N of granary. No birds stuck head out.

0815 still no birds seen or heard

0816 birds in main tree. Flycatching. See 2 ♀.

(One has M dark-lite (or lite-dark) on left
One ♀ (same one) has very tattered tail and
holds right wing funny (ie out)

→ M yellow-black

M red - l. blue ? ✓

L. blue yell. red (R)

0840 ♂ yellow (L)

♀ has twice flown to N to tree beyond tree with new hole

♀ good tail lite/red (R)

♂ d. green yell (L)

♀ good tail M (L) foot dark-lite

♀ bad tail d. blue/yell- (R)

0900 ∴ ♂ = 832 (?)

♀_{gt} = 809 (?)

♀_{bt} = 812 ?

5 June

1130

eggs

24.0 × 19.3

25.4 × 20.6

25.3 × 20.2

24.6 × 20.5

24.6 × 19.7

25.2 × 20.2

Appendix 3

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Mark Stanback

M. formicivorus

BLM 1

Hastings Reservation

6 June 0500 checked nest. 6 eggs. Flushed bird from nearby tree upon arrival

0515 - 0815 watched nest from nearby blind. Not only did no ♀♀ come to lay; no birds came to tree at all.

1015 now sitting near pond. Maybe the birds won't be so shy now. But no birds seen

1030 2 ♀♀ seen flycatching in granary (812 + ?)

1100 809 10.

1125 birds would flycatch for a while, then disappear. I don't know where to, but I didn't ~~see~~ any birds leave the granary

1126 hear 3 birds, 1 from trees near granary to SE. One bird is a banded ♂

1145 no bird in or near nest. Checked granary holes

7 June 0450 - 0550 watched nest from blind. No birds entered tree. Heard birds in granary and in tree near granary

1300 checked nest. 6 eggs. Also waited near granary to see if birds were interested in any other holes, but the birds didn't show.

10 June 0740 2 birds seen entering ^(partially) what seemed to be incomplete nest hole. No more visits for next half hour

1985

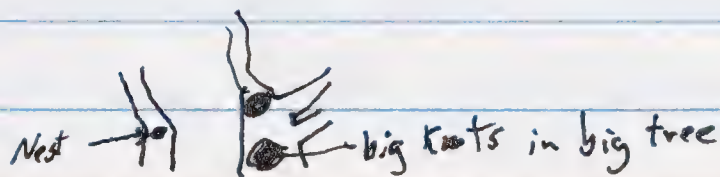
Mark Starbuck

M. formicivorus

BLM

Hastings Reservation

10 June 0800 Hole is in the more S of the 2 lone trees to the W of the granary. Hole is in knot hole very low to the ground.
View from N



12 June 1145 watched hole described on 10 June and the hole that group was showing interest in several weeks ago. No birds seen at any hole. Checked abandoned nest from ground. No birds. I checked the 10 June hole. It is deep and goes straight into the mass of the trunk. I need the peeper to check out the inside. Is it too thick to cut?

16 June 0800 Begin watch

0830 ♂ Flew to low hole in tree between mud pond and abandoned nest (ie the hole that the birds were working on on 21 May). He looked in once but mostly just sat outside and looked around. After 5 minutes he flew back to the granary.

0855 heard birds on BLM knoll.

1985 Mark Starbuck

M. formicivorus

BLM 1

Hastings Reservation

16 June 0910 After helling up all the trees to the NE of the granary, I climbed BLM Knoll and flushed a woodpecker from the tree that bluebird box 211 is found in. I couldn't find any hole, and even climbed the tree.

17 June 0730 peeped into low knot-hole described on 18 June. It was wet and slimy. Peeped into hole between Laguna Caneo and abandoned nest. It had a feather in the entrance, but was incomplete

0800 found nest (looking from BLM Knoll)
In granary tree in low limb facing NE.
Cut it open, no eggs.

18 June 0530 checked nest: nothing inside

0730 During this time⁽⁰⁵³⁰⁻⁰⁷³⁰⁾ no birds even went near the hole. They hung around the granary and the "woods" behind the granary.

0745

19 June

~~0815~~ ~~9968(?)~~ ~~♂~~ ~~bird~~ ♀ 968(?) seen at BLM 2 immediately after at least 3 birds were seen there. There was

1985

Mark Stanlock

M. formicivorusBLM 1HVHR

(19 June)

fighting taking place here about ~~0730~~⁰⁷³⁰ when these 5 birds were present. Only one bird was being attacked-chased. A little later a bird was seen flying back to BLM 1 (this was before 068(?) was identified. The birds were mostly using the big tree just to the BLM 1 side of the main BLM 2 tree. When there were birds at BLM 2, I noticed that there was no activity at BLM 1 (and vice versa). All this makes me believe that the birds at BLM 2 were BLM 1 birds. When there were birds seen at BLM 2, I noticed 1 ♂ + 2 ♀♀.

0745 2 ♀♀ and a ♂ were showing interest in the nest hole. One ♀ was hesitant to go in, and checked the Dap on top. I couldn't identify the birds because I was observing from BLM 2. No bird seemed to stay in more than 5 min. Lots of going in & out. Could it be that I missed such activity yesterday, since I stopped watching at 0730?

1985

Mark Stanback

M. formicivorus

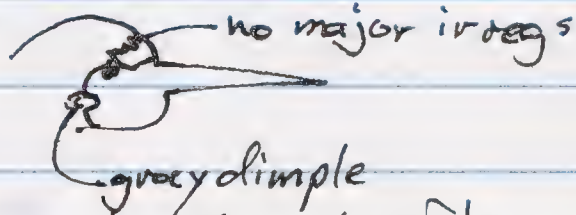
BLM 1

HNHR

(19 June) 0847 Egg tossing by NOID ♀. Soon
afterward a bird was chased out
of the granary.

20 June 0540 No eggs in nest

0642 NOID ♀ with →



into hole. (She stuck her head out after
arriving)

0720 ♀ left nest. She has M on left. Laid egg

26.0×20.9 with 4 warts on

big end

♂ 492 to hole, but didn't even look in,
left hole immediately and then sat on
nearby branch for 30 sec.

♂ 832 seen

22 June 1615 - 1645 Watched the 2 holes they have been
interested in lately. No birds seen at either.

25 June 1300 Flushed a bird out of the nest in the
granary.

29 June 1400 Only 1 egg (^{#11} 25.8×19.7) No bird seen
in hole. A bird vocalized as I finished.

1985

Mark Starlack

M. formicivorusBLM 1HNIR

5 July 0700 A bird left the nest and another entered.
Therefore, I guess this granary nest is still active.

0715 A BLM 1 bird (?) (an adult ♀) was seen on ~~the~~ BLM knoll ~~several~~ times and a woodpecker or 2 were heard here several times in the last hour.

7 July 1100 Opened nest. A piece of Dap fell and broke one of the seven eggs, so egg sizes only for these 6:

#1 24.9 x 19.8
24.7 x 20.2
26.3 x 20.5
26.8 x 20.6
24.7 x 20.7
25.0 x 20.5

gee, I guess I broke the one from 29 June

A. bird Flushed upon my arrival

14 July 1300-1600 Nest watch

19 July 0910 968 in nearby hole @ 5 min

22 July 0950 968 "

21 Aug 1600 babies all out. Quite a few acorns stored. (some)

1985 Mark Stanback
M. formicivorus

BLM 2

Hastings Reservation

1 May ^{Daylite} 1515 arrive, no sign of woodpeckers
1530 NOID lands in downhill granary tree. Stays @ 30
sec, then flies W
1615 still no woodpeckers, Am departing

22 May 1330 - 1410 Daylite time
no sign of woodpeckers. However, I may have
missed some quiet birds as I was transcribing
taped data for much of this time

19 June See 19 June BLM 1 notes

20 June ¹³⁰⁰ BLM 3 birds here at 1330

Baby 1056 seen. See 20 June BLM 3 notes
♂ 989 seen.

5 July 5 0700 BLM 3 birds are here. Came and
went over the course of an hour. At most 4
birds seen here.

1988

Mark Stanback

M. formicivorus

BLM 3

HNR

20 June 1030 2nd nest. Saw an adult in the nest sticking head out. Saw 2 babies. ~~about~~ Nest is .5 m above first nest.

1400 Measured 5 fresh eggs in the nest

1	24.1	x	19.3
2	24.5	x	19.3
3	24.3	x	19.0
4	23.7	x	19.1
5	23.9	x	19.1

1430 Saw 5 birds at BLM 2. One was baby 1056, another ♂ 989. All 5 birds flew in the general direction of BLM 3.

28 June 1530 Flushed bird from nest. Only 4 eggs in the nest. Egg #1 missing. Other eggs very dirty.

1 July 1100 Nest empty.

4 July 1030 - 1145 census. Not going well. Baby 1056 in nest tree when I arrived. Now 1130 and no birds since. I heard some toward BLM 2

1985

Mark Starbuck

M. formicivorus

BLM 3

H/VHR

5 July 0630-0730 Up to 4 BLM 3 birds were seen at one time this morning, both in the snag midway between BLM 2 and BLM 3 proper and at BLM 2 proper. One ♀ seemed especially to frequent BLM 2. At most two birds were seen in the tree containing BLM 3's failed nest.

0830-1000 Census: Adults: 5194, 768 945, 989. Babies: 1055, 1056. Census took place at the big ^{spindly} bare tree between BLM 2 and blm 3. The birds seemed to be spending about equal time at BLM 2 + 3. As I left and went by BLM 3, 4 birds flushed.

19 July

LBLUE/BLACK-Yellow
Black / M

30 (145) 73.8

↓ a few red feathers on white forehead

0530 After the ambush didn't close ~~on~~ right, I assumed it was a lost cause. However, at 0530 I returned and flushed 2 birds from the hole - they barely made it out so I tightened the string, locking 3 more inside. The ♀ that I was after was apparently one of the escapees. I did catch baby 1054, who showed no sign of molt, but did have

1985 Mark Stanback

M. formicivorus

BLM 3

HNHR

(19 July) 0600 a few red feathers in the white part of his forehead. Weight 73.8, wing 145.

0700 Caught ♂ 768

Weight 90g, wing 149

1° # 6 coming in on Left

1° # 5 " right

10% of crown molting

new down on abd

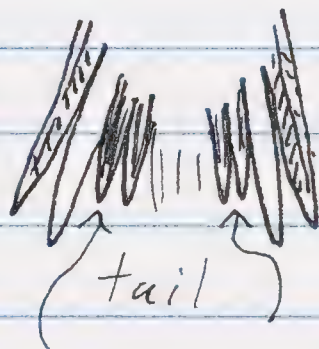
upper tail coverts molting

retrices: 2 pair molting

outer primaries old

cloacal protuberance very large, red, (moist?)

0730 an unidentified baby was still in the hole when I quit.



18 Aug W.D. Koenig reports 4 eggs (not new) in an active nest (the lower of the two opened holes in the tree near (nw) the granary)

21 Aug 1330 4 eggs still in nest. A bird was in the nest upon my arrival. This group has some - a lot of acorns still stored from last year.

1985 Mark Stanback

M. formicivorus

Gazebo

H/VHR

28 June 1400 - 1415 looked unsuccessfully for 2nd nest.

3 July census: 718, 942, 1103, 1104
Could not find 2nd nest.

5 July 1230 - 1300 Could not find 2nd nest.

late July tried again - no luck

19 Aug 1500 - 1530 "Census" Saw 942, 1103. I played the power struggle tape for about 5 sec. Immediately, 2 birds appeared at the old nest (in the knothole). One bird looked inside before flying off. I watched the hole for a while, but no action. I later climbed the tree, but couldn't reach the bottom of the hole. Keep an eye on this group. They are due for another nest.

21 Aug 1300. No response to hello from knot-hole or any other hole. This group has some acorns still stored from last year.

1985 Mark Stanback

M formicivorus

CVG

HNHR

13 July 1130 Opened nest. 4 eggs

1. 22.0 x 17.2

2. 22.7 x 17.9

3. 22.1 x 17.1

4. 21.9 x 17.2

14 July bird came to hole for "hello"

17 July no one at hole

18 July "

19 July "

20 July ~~1130~~ 1200 Nest failed. Some eggshells + entire eggs still in hole. Bird came over + scolded me.

18 Aug 1530-1710 Census: Saw 837, 941, 1078 1079. Hello'd to failed nest No response.

Some birds seemed to be hanging out up the hill toward Gazebo. Saw an unbanded ♀

19 Aug Checked trees toward Gazebo. Nothing.

1985

Mark Stanback

M. formicivorusCV 1
~~~~~Hartings Reservation

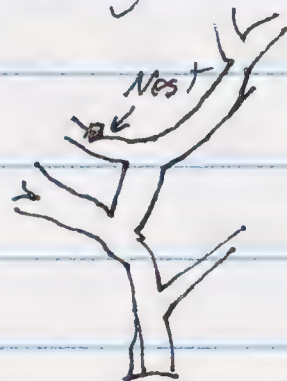
26 May

Spent several hours in afternoon looking for nest. Nope

27 May

1200 Found nest! in tree  
in meadow NW of their "main"

tree. Nest tree is last tree

on edge of knoll. ~~At~~ To determine status I watched it for .5 hr.

As viewed from CV 2

1230 start

1245 ♂ arrives. Sits outside, looks in, enters, stays in  
@ 30 sec. Leaves

1247 ♀ arrives. Sits outside, looks in, enters, stays in.

1249 ♂ arrives, sits outside, looks in, leaves

1300 ♀ still inside. I think I can see her inside  
the hole (the white of her throat), but she  
never sticks head out. No birds observed to  
carry food to hole

3 June

1135 ♀ went to hole (that I cut out several days  
ago), looked in, flew away1138 ♀ entered hole. Appeared soon afterward  
dumping sawdust (from me) out. She did this  
3 times1142 ♀ left hole, seen sitting with a ♂. No  
bands read on either, but I'm far away

1150 ♀ seen in hole again

6 June

1400 no bird in hole (there was one last evening)





1985 Mark Stanback

M. formicivorus

CV1

Hastings Reservation

- 7 June 0830 Began searching for nest. I checked the tree under which I was sitting the evening of 5 June to watch roosting in dead starling nest. At that time I heard a woodpecker of unk. sp. roosting(?) in the tree. There were a couple of likely holes, but no birds responded to "hello" today. These trees are up from the fence between the granary and the dead starling nest. The birds are spending time in these trees + the granary. No bird in dead starling<sup>d.s.</sup> hole.
- 1014 Bird flew into d.s. hole.
- 1019 Another bird into hole
- 1019-1031 a ♀ occasionally would stick head out and sit as such
- 1031 ♂ flies to hole, waka display, then moves over on same limb

- 8 June 0500 <sup>960</sup>~~1096~~(?) to hole, but flies away
- 0515 2 birds leave nest tree, return to granary
- 0519 960 enters, 966 then flies to hole + looks in. 1096 then joins ♂ outside, but then enters
- 0525 ♀ head out for 2 min, <sup>white (also no smudge)</sup> in then out again
- 0636 ♀ w head smudge leaves





1985 Mark Stenlack

M. formicivorus

CV1

Hastings Reservation

8 June 0642 ♀ head out, then in after 2 min

0653 " "

0703 " " 3

when 966 arrived. It stayed 1 min

0713 head out for 3 min

0717 head out

0718 non smudge ♀ (♡) leaves

I climbed the nest and found 2 eggs:

1.  $26.8 \times 19.4$

2.  $24.1 \times 19.1$

9 June 1500 3.  $28.5 \times 19.4$

4.  $25.2 \times 20.2$

10 June 1300 5.  $25.5 \times 20.1$

11 June 1000 6.  $25.1 \times 19.8$  what's going on

12 June 0645 6 eggs in nest, though I flushed a MCIP  
from the hole as I approached.

0715? 1096 came to nest, entered. She  
stayed inside @ 45 minutes, with occasional  
peeks out. I checked nest after she left,  
but still only 6 eggs. Waited some more in blind,  
but no bird showed up.





1985

Mark Stonbeck

M. formicivorus

CVI

Hastings Reservation

18 June 0630 checked nest: still 6 eggs

19 June 1430 still 6 eggs

21 June 1530 still 6 eggs

24 June 1600 3 babies. Eggs # 2, 3, & 4 unhatched  
Missy saw adults delivering small boli on 23 June

29 June 3 babies. Put a L. Blue band on one of them.

11 July 1600 2 babies in nest. Banded them as  
# 1132 L. Blue - L. Green / D. Blue - white 34.5 [ ]  
M / Orange - white

# 1133 Black / M  
Red / Black - L. Green 72.3 [50]

22 July 1445 - 1515 Watched. No activity at nest. Babies must have fledged since yesterday.

Aug  
19 ~~July~~ 0800 - 0830 "Census" Saw 966, 967. No action at previous nest. I made the census up the hill (NW) from the granary. Quite a few birds were up there (and even some likely holes)





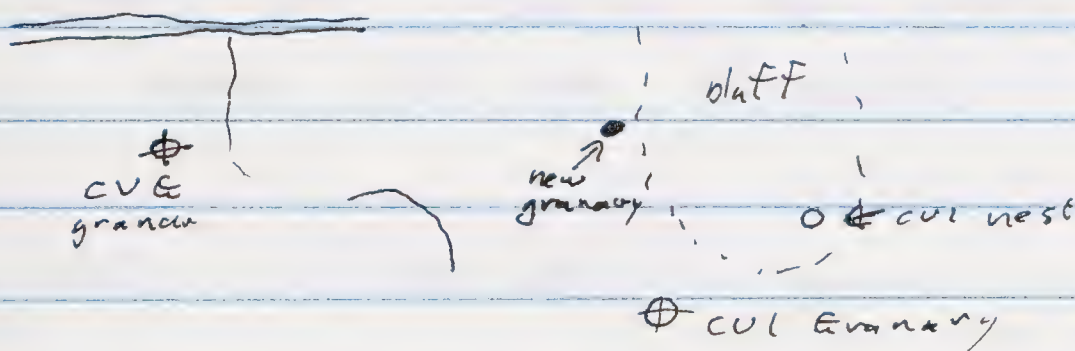
1985 Mark Stomach

M. formicivorus

CVI

HNHR

26 Oct 1500 No birds seen in main granary or nest tree. I heard a bird on the top of the bluff that the nest tree was on (I have seen CVI birds there in the past I checked it out and found a small granary on the CVI Grande side at the base of the bluff and saw a bird or two in a tree higher up the bluff. No 10).







1985

Mark Stanback

M. formicivorusCV2Hastings Reservation

27 May 1000 - 1130 Searched for CV2 Nest. Ventured up "canyon" to NE of where nest failed. I heard birds (+ saw) up there, but found no nest (though I did find holes).

5 June 1530 - 1630 Observed nest. No birds came. No birds even heard in vicinity (except for some vocalizations to the N ~~1/2~~ i.e. up valley)  
1630 - 1700 observed main granary and surrounding area. No sign of activity.

28 June 1600 Noisy babies!

|        |                         |                   |                                                                           |
|--------|-------------------------|-------------------|---------------------------------------------------------------------------|
| 1 July | 1200<br><del>1118</del> | 1118<br>78.8 (68) | D. Blue - L. Blue / D. Blue - L. Blue<br>white - Black / L. Blue - yellow |
|        | 1119                    | 74.9 (72)         | Red - D. Blue / white - Red<br>Yellow - L. Green / Yellow - L. Green      |
|        | 1120                    | 77.0 (57)         | L. Blue / L. Blue<br>Mauve / Black - white                                |
|        | 1121                    | 57.0 (55)         | L. Green / L. Green<br>Black - L. Blue / D. Blue - L. Pink                |
|        | 1122                    | 76.5 (73)         | White - L. Green / White - L. Green<br>D. Green / Orange                  |

19 Aug  
~~19 Aug~~

1400 Keyhole chunk was  $\frac{1}{2}$  out. I climbed to fix it. No activity. Remains of dead baby (feathers) near nest. I did hear some old babies in area. Lots of acorns stored.





1985

Mark Stanback

M. formicivorus

Ronald L. Mumme

HNHR

27 June 1745 - 1845 Quite a bit of activity in granary, but couldn't find a nest. The birds were also congregating in a snag up the canyon. A baby(?) was seen working on a hole, but in a limb too small to be a nest. Several babies were heard (fledglings).





1985

Mark Stenback

M. formicivorusOUTBACKHastings Reservation

6 June

1430 - 1630

2 ♀s, 1 banded

? bands?

M/d green - black

dark - yellow - dark

Banded ♀ pecked other female viciously several times. A baby rushed toward the pair and it too was pecked by the banded ♀.

The birds seem to be sapsucking.

Banded ♀ scratched her head and face several times by rubbing onto sticks, etc.

One ♂ is unbanded and scruffy. Is there another unscruffy ♂. The birds still seem to be incubating.

(1630 - 1700 I checked the group that lives in the saddle to the east of outback. Birds here, but shy and showed me little.)

8 June

1300 - 1545

This group has 2 unbanded males, at least and probably just 1 unbanded ♀, " " 1 baby.

The eggs have apparently hatched: visitation rate is higher, are carrying food. The banded female is 815.

27 June

1730

Babies still in nest.





1985

Mark Stanback

M. formicivorus

PRAIRIE HOME FIELD

HNHR

20 June 20 1600-1800 Found new group. They live in the 2<sup>nd</sup> gully to the right (if you're standing on the road). They have a large snag at the bottom of their area that sticks out into PHF proper. I found the birds hanging out near the top of the gully. There are at least 4 adults. I saw 2 unbanded ♂♂, 1 unbanded ♀, 1 banded ♀ (couldn't read bands); no babies seen or heard. Sky birds.

21 June 0815 - 1115 The birds never left the gully area. (last evening one flew across PHF, but now I realize that this was probably because when I played the Lucia tape, the bird thought there was an intruder from across PHF - this is where the nearest neighboring group is (I found them today too - however, they are less accessible than these PHF proper birds). There are many trees with acorn storage holes - many have acorns. The birds did not seem to concentrate their interest or activities to any one area, but they did give me some hints - there are roosting holes everywhere though.





1985

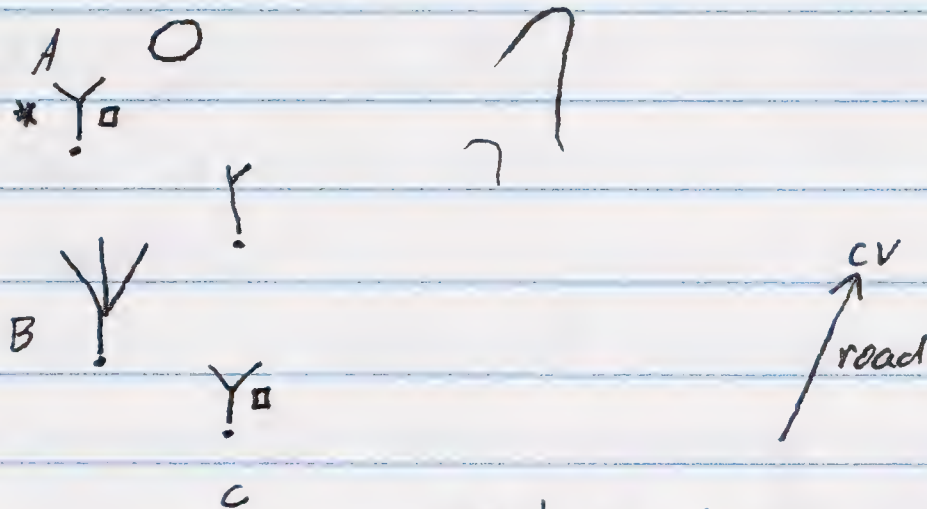
Mark Stanback

M. formicivorus

Prarie Home Field

H/VHR

(31 June)



- \* hang out on 20 June
- bird flushed from tree when hole hunting.

These 4 trees (...) often had birds in them - all have potential nest holes. All 4 trees can be watched from the fence at the Hastings side of PHF.

1530 - 1630 Watched the 4 trees from the road. No real activity. I saw birds at A but showing no interest in hole.

There is a group near the horse ranch by the bridge on the way to CV. There is ~~also a group~~.

22 June 1430 - 1600 Found nest! in tree C (see diagram above). The hole is in a granary limb that sticks out as a snag above the tree. Seem to be incubating.





1985

Mark Stanback

M. formicivorus


Prarie Home Field

H/VHR

23 June 0730 ♀ in nest, head out

0740 head in

0754 head out

0755 left, NOBA ♂ into hole. He also has a similar facial marking, and his red forms a point like .

0801 ♂ head out

0803 head in

This ♂ continued to alternate head in & out until 0850

0856 ♀ w L Blue-dark on left near foot came near hole, but immediately flew away

0908 same ♂(?) into hole until 0950

1000 Blue yellow (N) / yellow (R) ♀  
Narrow<sup>(2)</sup> / M . #650

1000-1030

I hear a group of birds across the road from PHF just up in the woods, I investigated but found nothing (yet)

25 June 1530 opened nest. 5 eggs.

24 x 19.5

28.85 x 19.35

23.0 x 18.50

24.5 x 18.85

24.4 x 19.4





1985 Mark Stanback

M. formicivorus

PHE

HNHR

28 June 1400 Bird seen in hole (head out)

1 July N. Popkin saw no bird in hole when she hellowed to it from a distance

4 July 1200 Babies heard in nest. No adult in nest.

15 July 0900 Banded babies

18 Aug Hello'd to old nest. No response.





1985 Mark Stanback

M. formicivorus

Dark Hollow

HNHR

22 July 1300-1430. Watched for activity etc, leading me to a 2<sup>nd</sup> nest. Birds weren't helpful. No 2<sup>nd</sup> nest found.

17 Aug Walked around tree and "hello'd". No sign of a nest. However, these guys are due for another nest.

21 Aug 1400-1500. Watched the group for hints of another nest. No major hints. Hello turned up nothing. This group still has some acorns stored from last year. An adult ♂ (NOIN) preen a right 1° off.





1985 Mark Stenlack

M. formicivorus

OK Corral

HNHR

27 June 1620 - 1700 Birds seem to be incubating, for they sit with heads stuck out. However there is a lot of activity near the nest. Birds sit by the hole. Could it be they're hatching. No food delivery noted.

? ? 10 July? Nest failed - empty

19 July 1830 Bird flushed from hole. It's alive.

21 July 1500 Egg #1 24.1 x 19.0  
2 23.4 x 19.2  
3 23.2 x 19.0  
4 23.6 x 18.9  
5 22.6 x 18.2  
6 23.4 x 18.8 (small crack)

19 Aug 1300 Banded babies. The "keyhole" piece of wood had fallen out, but the babies were fine. I replaced the wood chunk after banding

D. Blue - Yellow (N) / M 90242877 76 (68)  
Red - white (N) / D. Green - B. Pink

Black - B. Pink (N) / L. Blue - D. Pink 79 (75) black forehead band  
Orange - B. Pink / 90242878

Red - Orange (N) / 90242879 79 (66) "  
D. Blue - White (N) / Black - L. Green





1985

Mark Stanback

M. formicivorus

OK Corral

H/NHR

21 Aug 15 30 There are still alot of acorns stored here from last year. There are babies in the nest. I'm assuming the adults didn't mind the keyhole chunk put in.

26 Oct 1400 Flushed a bird from the granary upon arrival. Set up blind - no birds for 45 minutes. I moved to pasture below granary area. After a while a redtail landed and immediately 7 woodpeckers flew to a nearby branch to scold it. There were 2 banded ♀♀ and 5 ♂♂. Positive ID's were made on only 1160 and 886. Combinations I thought I saw included ♀ owo, ♀ no, ♂ (w)m, ♂ om, ♂ R or R(w). A ♀ with m on left was the only bird to make a swoop at the hawk.





1985 Mark Stanback

M. formicivorus

Forsaken Ridge

H/NHR

- 8 July ~~1800~~ Opened nest. Found 3 babies. Wts  
43 g, 41 g, 10 g
- 9 July 1800 Removed largest (50 g) and smallest (10)  
babies
- 10 July 1300 Smallest baby died while in my care. It  
never defecated, though I fed it a considerable  
amount. Difficulty breathing. Do not again  
Feed whole mealworms to babies this age, even  
the 50 g baby could not digest them, passing  
them unscathed in its feces.
- 1400 Opened and enlarged hole. Remaining  
baby in good shape. Feather tracts emerging.
- 14 July other 2 babies dead - nest abandoned





1985

Mark Stanback  
N. formicivorus

W. Gate

23 May

~~Gate~~

Hastings Reservation

W. Gate

1355 - 1435 saw both ♂ & ♀ (both unbanded?)

♀ ate part of acorn, stored acorn

25 May (cold, overcast)

0735 There are at least 2 birds here (ie maybe 3)

1 is unbanded ♀. The birds are spending a lot of time collecting acorns, both down the road (W) and SW on the Arnold side of the road

0814 I believe there are 2 females here. One N034

♀ seems to have a very ragged tail, while the other (?) has an undamaged tail.

0820 rag-tail ♀ enters hole in central acorn storage snag

0829 ♀ leaves hole. Is this a nest or just a roost, since it's cold & damp out.

0833 A ♀ examines hole, flies to perch, then back to and enters hole

0839 sticks head out for 20 sec, then back in

0952 ♀ leaves hole

0953 unidentified bird enters

checked nest - no eggs - Failure

1500

19 June No W Gate birds. Only GATE birds





1985

Mark Stanback

M. formicivorus

W. Gate

H/NHR

26 June 1000 Saw a bird in the top of granary

28 June 1500 Two birds in top of granary. NO 10

29 June 0900 ~~W~~ Gate birds (627 v 1097) seen  
in W. Gate tree. Hanging out there

18 Aug 1400-1445 A census of sorts (of Gate birds)  
All birds seen. Only 4 identified, but did  
see 5 birds together. The adult ♀ had  
a slightly discolored breast (making me think  
of incubation) Also, the ♂ + ♀ didn't appear  
together often, making me further suspicious  
of a "fall" nest. A short nest search turned  
up nothing (no activity at the Gate nest  
either)





1985

Mark Stanback

*M. formicivorus*

Ward 5

HNHR

19 June

Saw baby 997 and heard one other baby (at least). The ♂ adult (not in field list was LB/M

#636

LG/M

LG/D.G. - L.G.

LB/Black-yellow

See PIPE notes for 18 and 19 June

30 June 1100 Found 2<sup>nd</sup> nest (in same hole as first nest). Saw unbanded baby by road!

1 July 1700 Bee hive beside nest. Adult sticking head out. Did not flush.

6 July 0500 3 Hatchlings in nest

6 July 1230 - 1500 census? Saw 636, 5177 and 997. They don't seem to hang out at the granary. ~~They~~ downhill and to NW.

23 July 0730 Banded babies





1985

Mark Stanback

M. formicivorus

PIPE (Warp 5 ~~see 17 June~~)

Hastings Reservation

25 May 1245 arrive. Very few (and old) acorns in granary.  
No sign of birds. Saw a starling in granary.  
1303 Still no sign of birds. Adios.

18 June 1430 arrive. No birds at granary.  
1450 Play tape of Lucia waka r Krits. No response.  
1505 Lucia tape. A ♂ with Metal on ~~the~~ left  
(possibly with gray(?)) toward the foot and  
what looked like a dark-light split band  
on right. He quickly flew away from  
granary tree to an unknown landing  
not far away and to the SE of the  
granary. Then an unbanded ♀ flew from the  
same direction to the granary. She stayed  
only less than a minute. I then searched  
to the SE but found no birds. I saw  
2 birds heading toward R1 though.  
1515 Lucia tape: no luck  
1530 " ♀ came and stayed 10  
minutes. She flycaught and also ate some  
stored acorn. She departed to the SE.  
I followed, found a likely looking snag but  
no birds.  
1615 I saw a ♂ on a snag to the SE  
of this snag. He flushed. I watched the





1985

Mark Starback

M. formicivorus

✓  
PIPE ~~Warp 5~~ (see 19 June) Hastings Reservation

18 June 1615 cont'd snag for @ 25 minutes but he never returned. I did see banded babies of another group (FNCH?) not far off (ie across creek from R1)

19 June These birds are Warp 5 birds, See Warp 5 notes - 19 June.

23 June 1420 - 1440 Saw a unbanded ♀ and a baby at the Pipeline granary. I assume that they are Warp 5 birds. These birds have been hanging out along the road alot lately. I watched at a snag up the road about 100 yds from PIPE tree where I have seen a bird several times and where there is a good looking hole - but no action.

25 June 0615 Saw no birds here, but heard some about.

6 July 1500 997 alone at PIPE

8 July 0700-0730 ♂ 636, ♀ 5127, baby 997 in PIPE granary. An unbanded baby was in tree at same time as 997. Was this the bird also chased by 997 & 636. 0730 put 30 acorns in granary, after which scruff; NOBA & cane  
ate 0





1985 Mark Starbuck

M. formicivorus

Pipeline

HNR

9 July 0630 - 0730. Arriving I found Warp 5 baby 997 in the granary with an unbanded baby. They chased each other some. There were a lot of scrub jays + Steller's Jays around and vocalizing (and crows too) I played the power struggle tape when no one was there (about 0645) but didn't get any immediate results. By 0700 more birds began to show up, vocalize, and chase. The unbanded baby(s?) certainly don't belong to Warp 5, for both the Warp 5 baby 997 and ♂ 636 were seen attacking an unbanded baby. 2 different unbanded adult ♂s were seen (I believe I saw them chase e/o also) An unbanded ♀ (probably Warp 5 bird 5177 was seen sitting with other Warp 5 birds in the granary. Baby (Warp 5) 998 was seen for the first time since 850515. Baby 997 was seen initiating attacks on unbanded birds, leading me to think that Warp 5 was in general on the defensive. Also Warp 5 birds were seen in the granary itself more so than were the unbanded birds, who stayed more to the opposite side of the clearing from the road.





1985

Mark Stanback

M. formicivorusPipelineHNHR(9 ~~June~~ <sup>July</sup>)

1500. Put 100-200 acorns into PIPE granary. All acorns from yesterday (8 July) gone

10 ~~June~~ <sup>July</sup>

0700 - 1000 Arriving found 2 birds in granary. Set up for Power Struggle, but tape would not come on very loud.

0745 Caught and banded ♂ 1131 68.5 (142)

0900 Identified all Warp 5 birds (636, 5177, 997, 998, 999) The ♂ and the babies spent quite a bit of time attacking the ♂ dummy (even after the tape ran out) They finally succeeded in breaking its head off. The ♀ was not seen to attack this dummy, though she seemed "interested" in the attacks. She showed particular interest in the ♀ dummy, though neither she, the ♂, nor the babies attacked it, possibly because it was partially tangled in the net and attached to the speaker. Acorns taken from the granary were either eaten there or taken to Warp 5 (or at least in that direction. About 0900 an unbanded ♀ (not the Warp 5 ♀ appeared on the eastern edge of the clearing, but did not approach the granary, ~~and~~ left 10 min later.

18, 19 Aug

some acorns (mine) there. No birds





1985

Mark Starlack

M. formicivorus

R1

Hastings Reservation

- 26 May 0600 checked nest (Walter), no eggs
- 0626 383 enters hole, but sticks head out after 6 sec. She bucks down once again and only for a few seconds a minute later
- 0630 383 leaves
- 0632 269 looks in hole, leaves
- 0640 486 looks in hole, leaves
- 0645 269 comes out of hole with something in bill. It doesn't look like an egg or the remains of same. It looked more like a shriveled acorn or a fecal sac or something. Furthermore, I don't know when 269 went inside!
- 0645 Right after 269 came out, 383 arrived and went inside. Then 383 came back and went inside. Then 486 came back and went inside. (I'm not sure about the order of 383 and 486, but it was nearly simultaneous.) Then 269 came out. Then 486 came out. I'm not sure about 383
- 0650 486 comes and looks in hole, leaves
- 0800 I left my scope and approached the tree. Upon arrival at the base, there was a NOID bird sticking its head out; it flushed. Climbing the tree I found 2 normal sized eggs, which I numbered 1 + 2.
- 0831 383 enters hole
- 0832 383 sticks head out as 269 arrives, 383 leaves, 269 looks in + leaves





1985

Mark Stanback

M. formicivorus

R1

Hastings Reservation

27 May 0945 Numbered eggs 3 and 4 in nest. Laid this a.m.  
Eggs numbered up to 8. See Koenig notes for measurements

9 June 1400 checked nest and painted young

eggs 2 & 3 hatched

R leg, R wing Black / Back yellow  
yell / black

Blk back

9.25  
10.05

shell fragments still in nest.

Designation:

✓ A. R leg Blk, R wing Blk, Back yellow # 2 or 3

✓ B. R leg Yellow, R wing Yellow, Back Black # 2 or 3

~~C. Black O on back, black left leg~~

~~D. Black ● on back, black left wing~~

E.

F.

G.

H.

1800 yellow had come off. Weighed the 2 babies

A 10.05 g

B 9.25 g

●

●

10 June 1200 still just 2 babies, Egg # 7 missing

11 June 0845 2 babies, 5 eggs





1985 Mark Stanback

M. formicivorus

Road 1

Hastings Reservation

12 June 1130 still just 2 babies + 5 eggs. I didn't weigh the babies; Adults about.

15 June 1530 Baby A now black on Right leg and wing  
B Left

A: 40.05 g

B: 38.55 g

only eggs 5, 6, and 8 still in nest.

22 June 1545 Weighed babies

Mauve 73.1 g - 1.2 = 71.9

L. Blue = 77.6

1 July 1530 Banded babies

#1123 92.5 (88)

90242838 / White L. Green  
white / L. Blue

This baby had a L. Blue band on it and also had a red throat.

#1124

99 (92)

90242839 / Mauve  
Black White / Black - Red

This baby had Mauve on Left. Red throat

18 Aug No activity at nest, but I did see a bird at a hole (momentarily) on the other side of the road and down (NW) about 50 yds. "Hello" did nothing

19 Aug No activity at the above mentioned hole  
21 Aug "





1985

Mark Starbuck

M. ~~formicivorus~~Finch  
~~Mac Flat~~  
minHastings Reservation

- 2 June 0910 begin census  
 0918 NOID to nest. ♀  
 0920 2 birds flew from top of tree (towards Arnold)  
 0945 baby sticking head out of hole located  
 several feet above nest, begging.  
 0950 NOID ♂, but didn't go to nest - rbbby.  
 1005 ♂ w red + blue? (L) red (R)  
 2 ♀? lite black lite  
 613, 986, ?

30 June 1200 - 1300 Census: All birds seen. 542,  
 63, 613, 986, 1075, 1076

1 July 1330 big pink babies. Feathers not quite out

9 July 0730 Baby 1076 found on road dead

12 July 0830 Banded babies  
 M / Yellow-Mauve  
 #1137 white-L Green/white 75.6 (71)  
 1138 Black-Yellow/M  
 D Blue-L Blue/Red-D Green 62.8 (59)  
 1139 L Green-D Green / L Pink Black  
 M / Red-D Blue 75 (72)

18 Aug checked previous nest (hello) for activity. None





1985

Mark Stanback

M. formicivorus

Mac Flat

Hastings Reservation

- 8 June 1020 started census. The birds are occasionally vocal, but hard to see (<sup>esp</sup> truck)  
1050 quit from in truck  
1050 - 1100 tried outside of truck. No luck
- 11 June 0620 checked nest (but didn't ~~the~~ open it). There was no sign of young still in nest.  
0630 begin census  
0645 1082 garricked, then hammered, several times  
988 seen feeding NO 10 baby.  
Baby(s) tended to stay well hidden. ♀ would fly into dense vegetation with food, exit empty mouthed.  
0830 end census
- 12 June 1015 - 1115 census: 1082, 988  
~~1 ~~was~~ garricked and hammered several times at one point.~~
- 19 June 1600 - 1750 census 1082, 988
- 23 June 1300 - 1415 looked for 2<sup>nd</sup> nest in area where birds seemed to be going during the censuses. Found several ~~holes~~ holes, but they looked old





1985 Mark Starbuck

M. formicivorus

Mac Flat

HNHR

25 June 0530(?) checked old nest hole for new nest. Nope.  
A bird yelled at me from a snag up  
on the hill (E side); I went up to  
check, but saw no good holes etc.

28 June 1430 - 1450 looked unsuccessfully for 2<sup>nd</sup> nest.

29 June 1630 - 1800 Looked for 2<sup>nd</sup> nest from  
vantage point on Arnold Hill to west. No  
luck. Did see baby in knot "hole"  
in string tree where they like to sit.

30 June 1200 No bird in knot hole.  
Bird seen in tree (live oak) up & to right  
of first nest

Aug  
17 ~~May~~ Checked previous nest hole and 2 on other  
side of road for "fall" nest, No luck





1985

Mark Stanback  
M. formicivorus

R 3

Hastings Reservation

25 May

1315 ~~♀ entered~~ arrive. Woodpeckers about

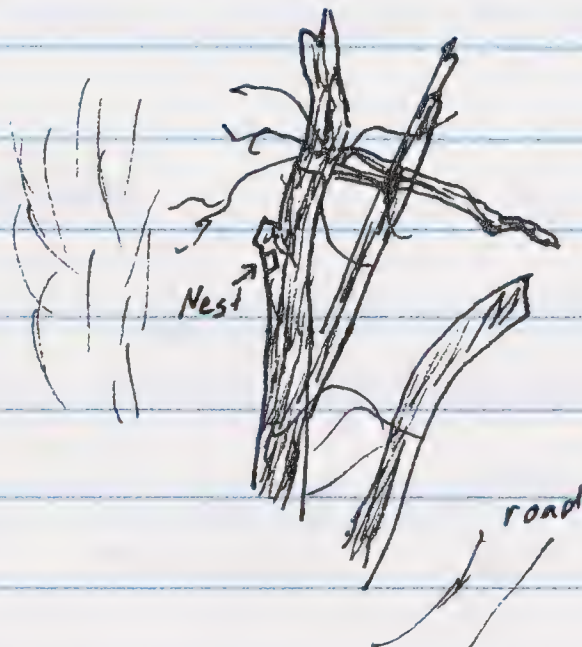
1330 ♀ entered nest hole

1336 ♀ stuck head out

has smudge on left forehead

1337 ♀ left nest or, br, lb (♀ 1010)

Nest hole is in tallest and westernmost of the 3 snags. Viewed from the SE



My guess is that birds are incubating.

1348 Still no birds have entered hole since 1010 left





1985 Mark Stanback

M. formicivorus

R3

Hastings Reservation

2 June 1615 4 eggs in nest. Measurements:

1 27.7 x 18.7

2 27.3 x 18.8

3 27.4 x 18.8

4 27.5 x 18.1

10 June 1400 2 eggs have hatched. Very recently.

1 July 1400 Banded babies

#1125 66.7 (76) Mauve/902-42836 (had white)  
Black-Red/Black-Orange

#1126 77.5 (87) L. Green L. Blue/Orange - D. Blue  
90242837 / Red-White

17 Aug Hello'd to hole - nothing - no sign of "fall" nest  
still lots of acorns





1985

Mark Stanlack

M. formicivorus

School Hill

Hastings Reservation

9 July 1200 Nest contained one naked nestling (wt 27.5 g) and eggs # 3, 4, and 5. Baby seemed rather hungry

18 Aug 0830 Census - still has lots of acorns stored from last year. Saw a ♀, 977, 1087, 1088, and an unbanded (NOBA) bird.





1985

Mark Stanback

M. formicivorus

SHW

HNHR

4 July 4 0800-0900 Census: Saw adults 5210, 530  
Babies: 1040, 1041, 1042





1985

Mark Stonbrink  
M. formicivorus

SOBO

HNHR

24 June 1100 - 1130 I looked around for a 2<sup>nd</sup> nest, but I couldn't find the tree with the first one so my searching was probably meaningless. I did see one baby in the granary, # 1038.

3 July 0800 - 0900. Census. Identified adults 736 and 5222. Babies 1038 and 1039 seen. Possible sighting of 1037. I didn't check for a second nest as the ♂ - ♀ were both with the babies at the granary the whole time.

21 Aug 1030 Few acorns in granary. No birds at granary. Didn't check old nest.

27 Oct 1000 - 1130. Saw only 2 birds. ID 736





1985

Mark Stanback

M. formicivorus

Black Oak

Hastings Reservation

9 June 0850 - 1050 Census

426, 774, 1025, 2 unbanded females

Babies seen 1004, 1005, 1007

24 June 1130 - 1210 I saw an adult bird sticking its head out a hole in the big tree at the upper end of the area near where you come in. The nest is in the 2<sup>nd</sup> hole up in a line of 4. Its in a limb that has a big (?) in it near the holes. A string was set up but didn't go near the hole so I spent my time moving the rope closer to the hole. The hole looks like its been opened, but upon examination seems to have closed shut?

26 June 1030 - 1215 I climbed up to check the nest. I had seen the bird sitting in the hole above the bottom hole, but upon examination, I found them to connect. The lower hole has more recently been opened, but was still very grown over w new bark, etc. Inside





1985 Mark Starback

M. formicivora

BKOK

HNHR

(26 June)

I found 7 eggs - which seemed a little cool to the touch - reminding me that I didn't see a bird in the hole upon arrival. But then again. she/he may have flushed while I was approaching and not looking. The egg sizes were

25.0 x 20.3

25.4 x 18.3

23.5 x 19

38.4 x 18

19.2 x ~~14.2~~ 14.2 (runt)

23.2 x 18.2

24.5 x 19.7

Lets hope they dont abandon.

28 June 1030 bird seen flushing from nest (?)

3 July 0730 No bird at hole. Couldn't hear babies.  
1030 Bird in hole. Checked nest - still eggs.

21 Aug 1015 No sign of a new nest anywhere.  
Few acorns stored.

27 Oct 0845-1000 426, 1004<sup>?</sup>, 1005<sup>?</sup>, 1007<sup>?</sup>, 1009<sup>?</sup>, 5207, 5208





1985

Mark Stanlack  
M. formicivorus

Hastings Reservation

Al

24 May

0845 ♂ with gray-blue? on left fed at nest

♂ baby hanging head out.

M/dark-yellow

dark lite blue dark metal

(r)

679

0911 ♂ w. blue-yellow/M

left

> same bird

100

(r) Y B O ♂

W Y

♀

W Y

505

0924 NOID fed baby

0928 ♂ brown-lite green brown? (r) fed acorn to baby

there are at least 4<sup>-3</sup> birds here

0943

W B M ♀ r

568

0950

dark lite blue dark

dark/M (679)

1010 unbanded ♀ approached nest was chased around tree

by another ♀

unbanded

1020

Y R <sup>2</sup> ♂

1032 2 feeding visits in the last minute. NOID on either, dammit

1039 one of the two previous birds ↑ is a ♀ w lite blue

yellow lite blue(?) on left

568 ?

27 May : shit , I forgot, how old are these babies Banded. OK.





1985

Mark Stanback

M. formicivorusAlHastings Reservation

27 May

1443

♀ blu w/w blu l

♂ l. blu black rt

♂ M red l

w blu r

♀ w y r

♀ w blu r

1530

♂ l. blu - blk \* m l

568

679

100 ?

505

679

One of the babies not only stuck his head out, but also actually made intention movements to fly (ie put part of his body out of the hole and rocked back & forth).

24 June

0715 - 0830

There are at least 3 babies hear, though I identified only 1020 and probably 1018 (I thought I saw y-r M on L, and some red on R)  
I mostly hunted for 2<sup>nd</sup> nest but was unsuccessful.

30 June

1530 - 1630

Census. Birds seen:

Adults: 568, 505

Babies: 1018, 1019, 1020, 1021

21 Aug

1000

No sign of nesting activity. Few acorns





1985 Mark Stanback

M. formicivorus

KOUT

HNHR

30 June 1500 Banded baby #1127

L. ~~P~~ink / L. Green

L. Pink / L. Green

21 Aug 0945 No activity at old nest. Where do they store acorns? I didn't see any in nest tree.





1985 Mark Stanback

M. formicivorus

LAMB

HNHR

17 July

Band 2<sup>(at least)</sup> babies. They were very old, so there may have been others that already fledged

21 Aug 1000 Some acorns still stored. No sign of any new nest.





1985 Mark Stanlack

M. formicivorus

FAAR

HNHR

21 Aug 1100 No stores seen. No activity at old nest.





1985 Mark Starbuck

M. formicivorus

Upper A 2

HNR

13 July 1430 Banded babies. Only 2! (Was 3)  
#1140 D Blue - L Blue / L Blue - D Blue 55 (64)  
White - Black / L Blue - Yellow  
#1141 Red - D Blue / White - Red 67.5 (77)  
Yellow - L Green / L. Green - Yellow

21 Aug 0915 No activity at old nest. Where do they store?





1985

Mark Stanback

M. formicivorus

LA2

Hastings Reservation

27 May 1545 Set myself up to watch new nest hole in top of grove west of failed nest. Few birds were about. None showed any interest in the hole.

1615 Noticed birds showing "interest" in the two trees together to the N of the failed nest. I set myself in the chaparral. On my way there I noticed a bird leaving the area around a snag with two holes in it. I watched these holes but no birds came to the trees.

1640 Three birds came to trees, very vocal. Were following e/o around. They all 3 entered one of the holes on the snag and waka'd while inside. Then they left the cavity by both holes and left the tree. At least one was a ♀. No more seen since I was just using binocs and was hiding under a chamise bush.

24 June 0900 - 1000 saw 4 birds at one time. The nest has babies, but since the hole is so big (horizontal branch), I couldn't reach to count the young. Identified ♀ 783





1985 Mark Stonback

M. formicivorus

LA 2

HNHR

26 June 1300 Checked nest. No babies were out near the opening - they were all way in the back of the hole where I couldn't reach. I took out two. One weighed 70.3 g, had eyes open, back feathers out, but 1<sup>o</sup> sheaths uncracked. Another baby was basically similar, but its 1<sup>o</sup> had begun to grow (i.e.  $\nearrow$ ). I reached a stick back into the nest to get to more babies. I touched at least one more. 2 Lasso time

28 June 1100  
Baby A 79.6 (45) D. Blue / L. Green - D. Blue  
# ~~1116~~ 1116 L. Green / D. Blue - L. Green

Baby B 77.8 (50) Red / L. Pink  
# 1117 Orange / L. Pink

3 July 0900-1000 Census: 783, 5223. The birds were not around much, possibly because Missy was playing power struggle tapes. Babies still in nest.

8 July 1645 - 1815 Census: 611, 783, 5223, 5224. No baby noises around. Still in nest?

21 Aug 0830 Saw 1116. No new nest. Few stored acorns.





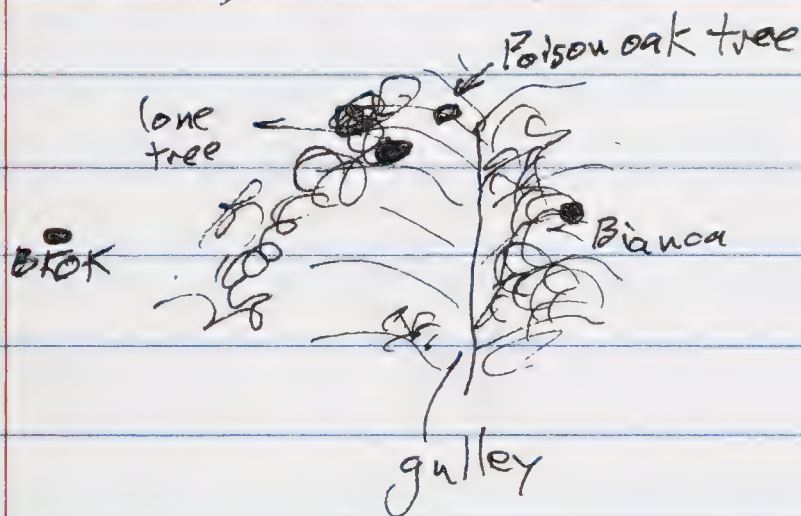
1985

Mark Starback

*M. formicivora*BIANHNHR

21 Aug 1100 No sign of new nesting

27 Oct 1130 - 1300 10 only ♀ 1059. There were several birds around here. Interactions between Bianca birds and what I think was BKOK birds. Involved some chases. ~~I think~~ I saw an unbanded ♀ near Bianca territory. IF 1060 turns out to be a ♀, I saw her



Interaction at  
poison oak and  
loner tree between  
Bianca and BKOK?  
or maybe SOBO.





1985 Mark Stonback

M. formicivorus

POH1

HNR

2 July 0900 Banded babies 1128, 1129, 1130





M. Stanback  
1986

Hastings Reservation  
*Melanerpes formicivorous*





1986

M. Stanback

M. formicivorus

CHONGO

HNHR

11 April 1600 checked last years nest w peeper.  
Nothing. Two birds came to tree when I  
was at the nest. I visited the sycamore  
saw 1 empty hole. I searched in vain for  
the valley oak up the hill.

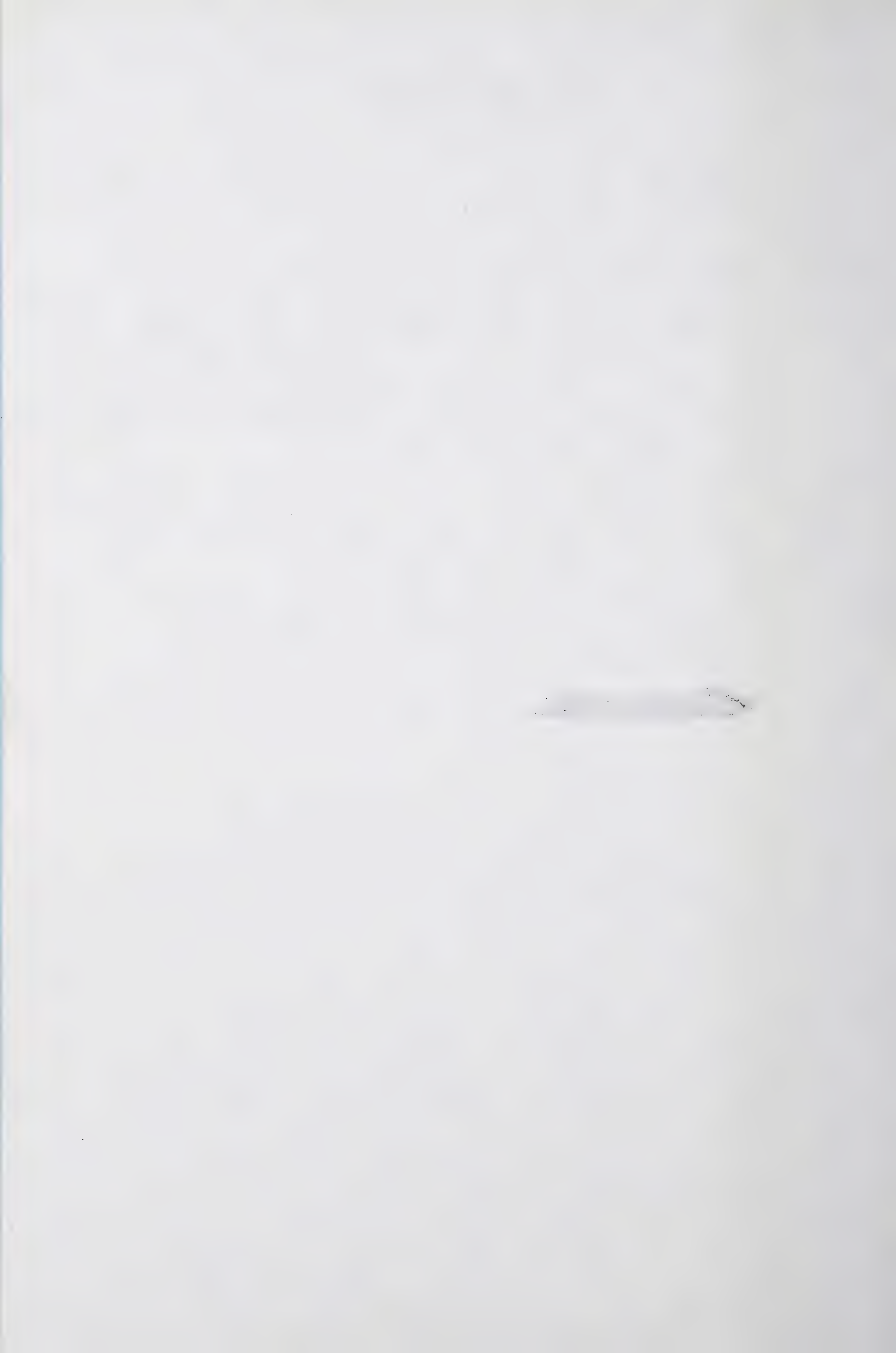
19 June 1100 Climbed this yrs nest (empty). Last year's  
nest (the low nice one) had an ~~active~~ mouse  
nest. I evicted mice and nest.

(27 June 3:30 removed thermocouples)

8:00 <sup>start</sup> install at pond

~~XXXXXXXXXXXXXXXXXXXX~~





1986 M. Stanback

M. formicivorus

BUCK

HVHR

6 April 1645 : a ♂ w M. Brown (1153) sat tight upon my arrival. A ♀ Flushed suspiciously from the last yr's nest end of the tree.

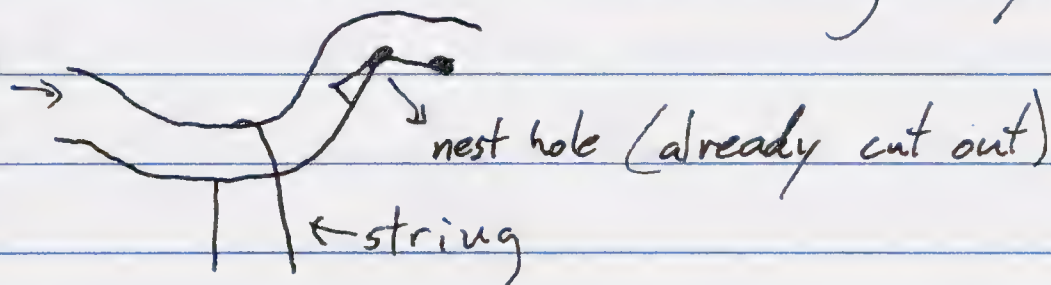
1720 A bird went into last yrs nest hole

1739 ♀ to nest, bird inside stuck head out, then pulled head in

1741 ♂ 1003 into nest, a ♀? left

A starling is nesting near ACW. Kestrels also seem to be nesting in the granary. The starlings here can imitate a waka. At least 4 ACW live here. The sun was bad for censusing, and I was nest searching anyway.

big long limb  
on NE side  
of tree



12 April 1430 Climbed tree 4 eggs - not really new, though I only checked one of them.

20 April 1430 A bird was in the hole upon arrival. Sue was here to do a feeding watch (?)

2 July 0830 4 7-day old babies





1986

M. Stanback

M. formicivorusPLQEHNHR

29 March 0845 : ♀ 1068 caught at CVGR power struggle. See capture records.

12 May 1130 Weighed babies

$\bar{W}$  49.2 g

$\bar{Y}$  45.0 g

Blue magic marker on L leg 26.6 g ~~26.6 g~~

this small baby was fed and removed from nest.

and put into 1500 w/o a band. The larger of the 2 1500 babies was put into PLQE nest after being banded Yellow - L Pink on right.

The smaller 1500 baby was banded L Blue on right and left in the nest

(1500 Blue 52.5 < from 1500 put into PLQE at 1600)  
YP 53.9

These 2 babies weighed 44.3 and 48.5 respectively when removed from their nest earlier today.

However, they sat in the lab & ate dog food. At 1600 I put them in with the remaining 2 PLQE babies.

19 May 0800 - 1100 Nest watch. See notes

1200 added PLQ runt from lab into nest. Removed Yellow baby from nest.

runt 64.6

LB 81.7

W 79.8

YP 81.9

Y 79.6

put in lab





1986

M. Stanback

M. FormicivorusPlagueHNHR

20 May 0810 - 1110 Nest watch (nest contained 3 large and one small offspring)

1200 Added the yellow baby from the lab to the nest.

Runt 64.7

LB 83.5

W 80.0

YP 81.7

Y 85.0

21 May 0810 - 1230 (omit some dead time during watch)

Nest watch (nest contained 4 big babies + runt)

When I climbed the nest, I caught ♀ 984

She weighed 80.0 g, wing 140, tail 75

1215. Get Baby weights! Runt 63.4

LB 82.6

YP 80.0

W 81.5

Y 79.1

22 May 0807 - 1215 (3 hour watch) Were Feeding lots of ladybugs. The ♀ (984) that Walt injected yesterday never showed up at the nest. However, one helper (1068) fed alot today, though she's only been seen twice before. I deemed the runt no longer a runt, so now he's pinch-hitting at MacFlat. I pulled the remaining 2 MacFlat kids (the other 2 are pinch hitting at 1500)

Right wing 31.9

Left wing 25.7

time 1145 →

(time 1215)

I fed RW until he was 35.1 g, pulled the largest 'PLQE' nestling, and put RW in with the other 3.

LB 83.7

YP 81.1

W 85.8

Y 84.8

→ in lab now (left eye was squinting)

at 1245



Y = Blue  
W = Red

1986

M. Stanback

M. FormicivorusPLACEHNR

23 May 1300 W 85.0 (77.0) squint  
 Y 81.3 (72.5)  
 1330 Y-LP 80.8 (74.5)  
 LB 85.0 (69.0)  
 runt 76.2 (52.0)

These birds were banded, then 1500 babies were returned  
 The following birds have tail spots: 1149, 1150, 1068

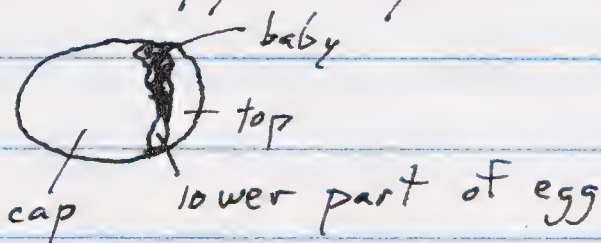
21 June 1200 5 eggs

23 June 0715 Lotsa ACW's seriously mobbing a squirrel  
 (looked like maybe a small gray squirrel?)

27 June 1500 3 babies, 2 eggs in nest. See watch notes 1600-1900

28 June 0800 - 1100 See watch notes.

1200 4 babies, 1 baby died while trying to hatch.  
 The egg had been capped by another.



29 June 1022 1271 squint baby leaves nest w large eggshell ( $\frac{1}{2}$ ) Fragment

|              |           |         |
|--------------|-----------|---------|
| 5 July       | runt 12.5 | LL 32.0 |
|              | RL 30.5   | RW 24.0 |
| 7 July       | runt 13.9 | LL 42.5 |
|              | RL 41.2   | RW 26.2 |
| 8 July       | runt 14.5 | LL 49.9 |
|              | RL 49.1   | RW 32.8 |
| 9 July       | runt 12.4 | LL 52.0 |
|              | RL 50.4   | RW 35.1 |
| 10 July 1300 | runt gone | LL 56.9 |
|              | RL 56.0   | RW 36.4 |

14 July 1700 RL 70.0  
 LL 71.9  
 RW 51.0

11 July 1700 RL 65.0  
 LL 66.7  
 RW 44.5

25 July roost: radio bird into hole in willow by lichen lab

26 July roost: " hole 'tween upper barn + gas pump

28 nest

29 gas pump





1986

M. Stanback

M. formicivorusMOOMHNHR

- 15 April 1200 - 1220 Looked around for nest. Nothing definite, but I did see a hole in the main tree facing N that looked like it had undergone recent work.
- 1 May 1000 - 1100 hid under a bush. A couple of birds came - none to hole. I climbed to the new hole - no babies, but having no peeper I don't know if it's empty or eggs or what.
- 7 May 1030 checked that nice hole in the 'hole' tree. Empty. But claw marks at door.
- 1 June 1245 - 1330 Hid near nest tree & waited. A bird or two showed up, but just played w acorns. At 1330 I climbed the tree & peeped several holes. I saw/heard nothing, but that plastic mirror sucks.
- 9 June 1515 - 1600 Watched for a nest for  $\frac{1}{2}$  hr, then climbed & peeped some holes. There are at least 3 birds here. Last year's nest is empty. The 'nice' hole I've been watching all ~~spring~~ season has mice in it.





1986

M. Stanback

M. formicivorusYHNHR

- 13 April 0800 - 0830 All quiet. Removal of a breeding ♂ last night at an ambush in the canyon has had no effect. The ♂ was caught along with the ♀ breeder. Hole is now re-DAPped
- 8 May 1830 Banded babies. Three of them. See capture records.
- 2 June 0740 Saw ♀ GWM and baby MBI at MacRoberts
- 0755 baby w BK-LG/BK-W(N) "
- 0800 baby w LB-R/M "
- 13 June 1500 Y nest w 5 eggs
- 14 June 1530 Y nest w 5 eggs
- 15 "
- 16 June 0800 Bird Flushed. I didn't hear any babies
- 17 June 0800 5 eggs
- 19 June 0600 "
- 20 June 0730 2 babies, 2 eggs
- 0830 - 1130 Nest watch. See notes.
- 1140 LL 5.52 g, RL 5.36 g
- 1730 3 babies  
(baby 1228 has adult eyes)
- 21 June 0755 - 1055 Nest watch
- 1115 LL 8.14  
RL 7.86  
RW 4.62
- 1700 still 3 babies + 1 egg
- 0800 - 1100 Nest watch
- 22 June 1130 LL 11.10 14.80  
RL 10.58 14.64  
RW 7.74 9.42
- 23 June nest watch 1115 ——— ↑





1986

M. Stanback

M. formicivorusYH.N.H.R

## Baby weight record

19 June 0600 5 eggs

20 June 0730 2 babies, 2 eggs

1140 LL 5.52

RL 5.36

1730 3 babies

LL + RL total 719  
RW 720

| Day  | 20 June | 21   | 22    | 23    | 24    | 25    | 26    | 27    | <del>28</del>   | 28    | 29   | 30   |
|------|---------|------|-------|-------|-------|-------|-------|-------|-----------------|-------|------|------|
| time | 1140    | 1115 | 1130  | 1115  | 1030  | 1050  |       | 1600  | <del>1130</del> | 1130  | 1125 | 1415 |
| LL   | 5.52    | 8.14 | 11.10 | 14.80 | 18.60 | 21.36 | 25.10 | 30.96 | <del>36.6</del> | 32.68 | 36.6 | 43.2 |
| RL   | 5.36    | 7.86 | 10.58 | 14.64 | 18.32 | 21.74 | 26.16 | 30.50 | <del>35.8</del> | 31.42 | 35.8 | 38.5 |
| RW   |         | 4.62 | 7.74  | 9.42  | 8.60  | 8.82  | 7.24  |       |                 |       |      |      |

| Day  | 1 July | 2    | 4-5  | 6    | 8    | 12 |  |  |
|------|--------|------|------|------|------|----|--|--|
| time | 1415   | 1300 |      |      |      |    |  |  |
| LL   | 47.5   | 48.8 | 60.0 | 68.8 | 74.8 |    |  |  |
| RL   | 44.3   | 52.5 | 55.0 | 62.5 | 72.0 |    |  |  |





1986 M. Stanbac k

M. Formicivorus

A handwritten lowercase letter 'y' on lined paper. The letter is formed with a single stroke, starting from the middle line, going down to the bottom line, and then curving back up to the middle line.

HNR

|         |      |    |       |       |
|---------|------|----|-------|-------|
| 24 June | 1030 | LL | 18.60 | 21.36 |
|         |      | RL | 18.32 | 21.74 |
|         |      | RW | 8.60  | 8.82  |

|         |      |        |          |
|---------|------|--------|----------|
| 25 June | 1050 | _____↑ |          |
|         |      |        | LL 25.10 |
| 26 June |      |        | RL 26.16 |
|         |      |        | RW 7.24  |

|         |      |       |               |                           |
|---------|------|-------|---------------|---------------------------|
| 27 June | 1600 | 30.96 | left leg Blue | (runt gone)<br>(egg gone) |
|         |      | 30.50 | rt. leg "     |                           |

rw

|         |          |       |         |                |
|---------|----------|-------|---------|----------------|
| 28 June | 1130 PST | 31.42 | rt. leg | 35.8           |
|         |          | 32.68 | lt. leg | 36.6 (L. Blue) |

29 June 1125

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| 30 June | 1415 | Blue | 43.2 | 47.5 | 48.8 |
|         |      | R    | 38.5 | 44.3 | 52.5 |

1 July 1450 

2 July 1300 both bleeding forehead -  
-- 1? R 60.0

|           |        |
|-----------|--------|
| 4-5 July? | B 60.0 |
|           | 55.0   |

|        |      |
|--------|------|
| 6 July | 68.8 |
|        | 62.5 |

|        |      |
|--------|------|
| 8 July | 74.8 |
|        | 72.0 |

|         |        |
|---------|--------|
| 12 July | banded |
|---------|--------|

24 July 1600 Found the door of the nest on ground under nest. who climbed this last. Are the babies alive? Did they fledge in time?

25 July (am) Katy reports seeing at least one of the fledglings from the second nest.

7 Dec ~1200 Added ~500 acorns (some  $\frac{1}{2}$  nice VAK acorns from fall 85, others were nasty & old). No action here today.

8 Dec Birds at Y (barn) but no one (next page) ✓

**YOW!** The acorns were added at the big old VAOR with old storage holes in the bark (at base of SHill)





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M. Stanback

M. FormicivorusY  
m

HNHR

(8 Dec) is over at the 'new' granary (henceforth called "Y-not")

9 Dec 1645. A ♀ seen at barn locust. Bands were  
~~Y-1B/10~~ ♀ ~~W-B/M~~ 1149 From Plge. Another  
~~W-13/M~~ Y-B/O

ACW was heard in sycamores toward Y-not. Hey its getting dark. These guys must like it here.

10 Dec 1100 heard birds at Y-not.

1320 (N Popkin) - 1500. It seems to be Plge ♂♂ helpers vs the Y ♀ here. They attack her repeatedly. She was noisy (wakas, karvit-cats, and even garricks!) Before nancy started I (ms) saw a ♂ store an acorn from Y-not in a nearby sycamore. Nancy reports helper ♂♂ taking acorns back to Plge. Shit, don't they know she's hot-to-trot? Bird 1150 was especially mean to her. Birds seen: ♀ 675, ♂ 1150, ♂ 1069, ♂ 721 (hey! a breeder!). He was only rarely seen though. One mystery bird LP-W/LB-Y.  
 1700 Birds still here as I pass

P.S. Nancy reports ♀ 675 working on a roost hole in an OAK beside the Y-not granary.

14 Dec All acorns gone From Y-not. Assume Y has 0 acorns  
 1700 Bird sitting alone at Locust. Presume Y ♀.





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Mac Roberts

H/VH/R

2 June 0740 Census here. After waiting 25 min here, 2 birds showed up - a ♀ w GWM and a baby banded MBI. I can only assume these are Y birds, and not Refute 1 birds (yesterday, I saw birds here and thought they were from Ref 1). These 2 birds left shortly thereafter.

0755 ♂ (banded) feeding a baby w BK-G/BK-W(V)  
2 trees ~~down~~ S of Fallen granary (where last sighting was made).

0800 baby w LB-R/M at granary



1292  
154

1100

1986

M. Stanback

M. Formicivorus1500H NHR

20 April 1700 : 2 NOID birds were in one of the 2 blue trees along the Fire road in central canyon. I thought they might be BLM1 or Refute 1, but they flew off and I followed one of them

30 April w binocs and it went to 1500

9 May 0830 Sue weighed babies + marked them.

Left wing 28.5

right wing 32.0

12 May 1300 See PLAQ notes. The PLAQ runt was put into 1500 nest w/o a band. The larger 1500 baby was taken for PLAQ's nest and banded Y-L Pink on right. The smaller 1500 baby was band w 'L. Blue on right and left in 1500's nest. Lots of dead bees in this nest.

1500 big baby (same as 9 May) 48.5

small baby LB 44.3

1600 these babies were fed, then put in PLQE nest see PLQE notes from now on for info on these babies.

1500 There were honeybees going in & out of this hole all the while I was hanging there.

15 May 1600 Climbed. The runt from LA2 is doing fine in here. Don't seem to be any new bees.

20 May 1500 Removed the LA2 runt. He thinks he wants to Fledge  
Added Macflat babies after feeding RB 27.5  
NOBA 19.8





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M. Formicivorus

1500

HNR

23 May

Banded babies and returned to nest.

9 June

1630

Helio'd hole. No one home

14 Dec

Acorns!

1<sup>st</sup> tree

1292

Walt

(1100 me)

2<sup>nd</sup> tree

154





1986

M. Stanback

M. formicivorus1800HVHR

9 April 1900 Roosting. Several birds into last yr's nest. Lotsa vocalizations, as if not everyone was wanted inside

21 April 0800 Climbed nest. 1 egg inside - unmarked. So they tossed again. I marked it with "X".  
 $24.5 \times 19.0$

16 April? am Nest watch.

0705 Gray-K / Gray-W ♂ looks in (771)

0709 " in, then out

0718 " in

0718 W DB ♀ in, then ♂ out (193?)

0719 ♀ out

0730 climbed - nest empty

watched 'til 0830 - no one returned

(Katie watched the next day - still no eggs)

21 April 1130-1330 Mate guarding watch. See data sheet

24 April 0830 ~~1 egg~~ one egg. Sue saw no tossing.  $24.3 \times 19.5$

Uh, see Sue's notes for egg size. Yep  $24.3 \times 19.5$

∴ #1  $24.3 \times 19.5$

#2  $24.5 \times 20.3$

#3  $24.3 \times 18.5$

#4  $24.7 \times 19.2$





1986

M. Stanback

M. Formicivorus

1

1800

HNHR

1 May

1800 - 1925 ♂ egg toss watch

1800 a ♂ is inside (not 770)

1810 ♂ out, ♀ head out!

1811 ♀ pulls head in

1817 ♂ into nest (not 770 or 774)

1825<sup>00</sup> Fight in the tree  
770 to hole  
774 attacks him  
♂ in the nest leaves

1825<sup>30</sup> 770 goes into nest

1826<sup>11</sup> 770 tosses egg! (Flies away w/it)

1826<sup>40</sup> 787 to hole

1833 787 leaves  
774 into nest

1836 774 out, 771 in

1849 Fight in tree

1850<sup>00</sup> ♀ in (who?)

1850<sup>15</sup> 770, 771, 774 to hole  
774 grabs 770's wing in beak  
♀ leaves  
(a ♂ must have gone in, he now leaves)  
770 into nest (alone)

1850<sup>50</sup> 770 sticks head out several times

1851<sup>40</sup> 770 Flies away w egg

1851<sup>55</sup> 787 into nest

1900<sup>30</sup> 787 leaves

770, 771, 774 to hole and fight

770 into nest

770 head out for 5 sec, then leaves

~~1902<sup>00</sup>~~ 770 into nest

1902<sup>00</sup> ♂ to hole, Fights w 770, goes in anyway  
this ♂ then leaves

1903<sup>30</sup> 770 head out

1905 770 leaves, fight ensues in tree

1905<sup>20</sup> Fight at hole, only 770 enters





1986

M. Stanback

M. Formicivorus

2

1800

HNR

(1 May)

1909<sup>15</sup> 771 to hole, chatters, then leaves

1915<sup>00</sup> 770 leaves hole, fight ensues in tree

1915<sup>20</sup> 770 into hole

1916<sup>00</sup> 770 leaves hole (no fighting)

1916<sup>45</sup> 2 birds fight at hole

1917<sup>00</sup> a bird flies from the direction of 1500

Karritting loudly. 770 leaves hole - fight ensues in tree, then birds move to hole and fight several are involved. 770 enters hole.

★ At this point tape recorder malfunctioned (discovered after the fact) but I do remember that 2 birds roosted in the nest - 770 and one other. I stayed at the blind until 1925. All was quiet.





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M. formicivorus

1)

1800HNHR

2 May 0444 - 0830 ♂ egg toss watch

0444 - arrive, birds Flush?

0449 - small fight in tree

0450 - one bird in, Followed by another

0501 - ♀ leaves hole, 770 sticks head out

0503<sub>30</sub> - 770 head out with egg - some vocalizations  
in tree, then 770 drops egg out of hole, 770 stays in0510<sub>00</sub> 193 to hole, looks in, leaves (vocal in tree)

0513 774 in, chattering inside

0514 ♀ in, more chatter

0515<sub>00</sub> ♀ out0517<sub>00</sub> 774 head out0517<sub>45</sub> ? inside0518<sub>00</sub> a ♂ leaves0522<sub>40</sub> ♀ out, 770 head out0525<sub>40</sub> 787 looks in hole, flies away

0529 787 into hole

774 into hole &gt; chatter

771 to hole &gt; chatter

787 leaves, 771 into

0532 ♂ out

0541 ♂ out

770 sticks head out, then back in (vocalized when out)

0604 193 looks in flies away

0606 771 to hole, chatters, flies away

0617<sub>00</sub> 193 looks in, quiet, flies away

♂ " chattering, flies away

0617<sub>45</sub> 770 leaves

0622 787 in

24 787 head out then leaves

26 771 to hole, flies away (fighting in the tree at this time)

29 ♂ into hole

35 ♂ leaves with wood chip } not 770





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M. Formicivorus

2)

1800

HNHR

(2 May)

0650 193 into hole  
0651 " leaves "  
0739 193 into hole  
0739 head out 10 sec  
074230 " 1.5 min  
0744 193 leaves  
0753 771 into hole  
0754 771 head out 30 sec then left hole  
0830 nest empty - end watch

★  
0900 climb nest. Empty. 2 eggs lay broken  
directly beneath nest entrance (within 8" of e/a)  
1 looks fresh, 1 looks as it was dropped  
yesterday. The eggs were eggs #3 and #4





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M. Stanback

M. Formicivorus1800HVHR

- 30 April 1600 - 1915 Incubation - ♂ egg toss watch. Saw these birds: 771, 193, 774, 1095, 1163, 787.
- 1 May 1800 - 1925. See nest watch (?) data for info on 770 egg tossing.
- 2 May 0444 - 0830 See nest watch (?) data for info on 770 egg tossing.
- 5 May 0755 - 1055 See mate guarding data for watch
- 15 May 1225 - 1455: Mate Guarding watch. See notes. Not much (any) guarding, the aviary ♂ is getting beat up. Hole action. 1530 2 new eggs. 1 'got broke' when the chunk fell into the nest. Sorry. #5 is  $24.2 \times 19.2$
- 2 June 1100 - 1400 Nest watch. See notes





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M. Stanback

M. FormicivorusH-BHNHR

25 April 1650 Removed ambush. 2 barn owls Flushed  
from a hole in this tree

13 May 0430 - 0800 ♂ egg toss - incubation watch. See notes

14 May 1745 - 1922 watch. See notes

15 May 1830 - 1930. Brooding - incubation watch. See notes.

4 of the eight eggs have hatched

27 May

1230

Y 60.0

RB 61.2

BK 55.2

O 49.2

W 56.4

LB 58.0

NOBA 33.7 (bill bent)





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M. Formicivorus

Low Hay

HNHR

25 April 1600 Checked nest. 4 babies, one to two days old. 3 were about the same size, 1 was somewhat of a runt. Egg #2 was not hatched. I 'candled' it - didn't seem to have an embryo. Egg shell fragments were still in the nest

15 May 1700 Banded babies, got blood, painted foreheads  
#1251 (was orange, painted red right)  $\frac{M}{BWN}$   
80.8 g (75.0) D.B O-Y

#1252 (was L. Blue, painted red left)  $\frac{M}{Red}$   
83.6 g (72.0) L.B-O L.B

#1253 (was red, painted v. blue)  $\frac{D.B-L.G}{RW N}$  /  $\frac{M}{Blk}$   
78.2 g (60.5)

#1254 (was L. Green, paint left blue)  $\frac{RON}{L.G}$  /  $\frac{W}{M}$

14 June 0930 5 eggs (?)

15 June 4 eggs

16 June 0820 Put hand over hole. No response (either no hatch or no eggs)

17 June 0830 2 babies. Fragments from 2, maybe 3 eggs.

7 July 1800 Banded 2 babies





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Refute I M. formicivorus

~~Central Canyon East~~

HVHR

6 April 1100: 3 banded ♂♂ and 1 unbanded ♀ seen  
at snag 100 m to E of box 173.  
♂ w O on L near foot  
♂ M R "

Nest hole low on N side of snag

Coopers hawk caught  
robin, scared AWP.  
This tree is an artificial granary

7 April 1430 checked hole that birds were in yesterday  
Looks like an owl nest (old) Fur inside,  
a skull at entrance - hole was just big  
enough for me to get my hand in. Could  
it be that the ACW's are still shopping, and  
the bird inside yesterday was just hiding  
from the hawk? Sue said she didn't see  
action here this am.

18 April Set ambush & cut open hole. Limb sorta  
rotten - very wierd. Sue tells me later the  
♀ went in, then the ♂ got upset, she came  
out.

19 April 0900 A bird was sitting worriedly near the hole  
I took the ambush down and watched for 1/2 hr.  
No birds returned.

20 April 1700 Saw 2 NOD birds in the five roed trees. One  
went to 1500





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M. Stanback

M. formicivorus

Refute I

HNHR

25 April Climbed 'nest' at 1730 : empty. Also checked the hole in the granary - it was filled with a lichen nest of some sort.

1 May 1700 - 1715. Saw ♂ RWM and NOBA ♀. Starlings at nest hole in lone tree. ♂ M = ♂ O-

1 June 0915 - 1015 Watched at "granary" and "nest tree" Very slow. at 0940 a <sup>ACW</sup> bird flew by the granary. At 0944 an ACW sat in the granary for a minute or so, then flew high and sort of toward the Y. I was later <sup>(1100)</sup> snooping at MacRobert and saw 2 ACW's there. Are these (Y birds)? Ref I birds? Mac Rob birds? (P.S. Dragently people haven't noticed birds up toward Ref I)



W i

88

W 0

1986

M. Stanback

M. formicivorus

BLM 1

HNHR

3 April 0730 Bluebird box 329 in central canyon  
low trees up to BLM 1 3 ACW NOBA ♀  
♂ dark-life / lite-dark on left  
another NOID ♂

all 3 flew toward BLM 1 ?

0735 on E side central canyon at  
tree w box 173, a NOID ♂ karvited

0737 at snag 200 m to E of box 172,  
another NOID ♂ (different) karviting

0752 NOBA ♀ at Box 329, flies down  
to Y area, then possibly up to aviary area

0815: 2 birds in main tree, a third landed  
and was chased away by a vocalizing bird.

The bird remaining on the branch was a  
NOID ♂

0818 - ACW approached BLM knoll from NW.

0832

P-LB/LD  
M / Pink-LB  
♂

♀

or-blk  
M

(brown feathers)  
tail spots

There's a starling nest in the main tree  
that must be dealt with.

1700

20 April Starling nest in the low low tree must be  
dealt with. The BLM 1 birds are different  
from the BLM 2 birds. BLM 1 birds  
make suspicious flites in the higher portion  
of the granary. I found a nice hole there!

24 April 1630-1650 Birds near the hole, but not to it.





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M. Formicivorus

Blm 1

HVHR

1 May 1715 - 1745 Watched From Ref 1. Starlings in hole where we ambushed last time (where helper ♀ was working last year.

3 May watched for nest 1 hr - no luck

29 May 1030 - 1330 Egg toss - incub watch. See notes

3 July 0900 Saw 5 birds (2 [at least] of which were babies) too near Blm 1 (see map below)

01030 After chasing these ghosts around I finally saw an unbanded ♀ and a banded baby (#1317) These are Pipeline birds! They seem to be a stable Fixture up here (at least this morning) Wow

29 July 1600 standing at Laguna Cancjo, I hear birds at Blm 1, on top of Far Knoll, and immediately to the CV side of Far Knoll.

I chocked trim out (rapidographs suck!).

and they seem to be Blm 3 birds hanging out on the CV side of the knoll. 6 birds!

One was baby 1261; one by (Fuck rapidographs) one they flew back to Blm 3.

24 Sept There were a coupla birds on top of Far Knoll. Blm 3?

10 Dec 1345 - 1645 Census. Saw 2 ♀♀, one of which was 809. I saw 2 helper ♂♂ (1167 + 1358)

These were the only birds I saw and I feel pretty sure that these are the only birds here (no Br ♂♂!!!)

P.S. A banded ♂ flew from the line trees on the way up to Blm 1 down to the pump.





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M. formicivorus

BLM 2

HNHR

9 April 1145 Six birds seen (all sitting together)  
They would Fly toward BLM 3, but only  
just past the big stump. Problem - I  
saw 6 birds, but BLM 1 & 3 each have  
only 5 birds - this "killing" off of  
birds that haven't been seen has to stop.

Mid <sup>June</sup> ~~May~~ 0500 heard birds at BLM 2

3 July 0830 " . Did I hear a baby?!

26 Sept saw 1132.

19 Nov 1030. I saw a bird w ~~black/m~~ Black/M, so I  
thought it was 1202 (OG/M) but it was a ♂,  
and 1202 is sposta be a ♀. Whoops, it seems  
to be (by bands) a BLM 3 bird. Question is,  
if this is the bird I've been seeing, why is it  
storing & why is it alone.





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M. formicivorus

BLM 3

HNHR

29 March 0800-1000 ♀ 1172 seen at CVGR power struggle

29 March 1630 began watch

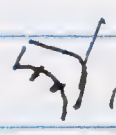
1645 heard birds to West, but no one responds to tape of Lucia.

1700 end watch; no birds sighted

30 March 1300 stopped by. 2 birds Flushed

9 April 1215 stopped by. No one in last yr's holes

13 April 1130 5 birds left when I arrived. Climbed last year's two holes & peeped inside. Didn't see any eggs, but then again I didn't get a great look.

18 April Bird in hole  (the lower hole)

19 April 1600 Walter climbed hole - 5 eggs

20 April Sue says Rajneesh birds are BLM 3

14 June 1200 No one in either hole

23 June 1700 Checked both holes - empty

3 July 0815 hello'd holes - no response

29 July 1600 - 1700 6 birds (including baby 1261) were at the top of Far Knoll (just on the CV side)

14 Aug baby 1262 seen in the hollow with the broken tree (toward Raj) Very strange - there are mystery birds hanging out at the old Raj saddle. Who are they? BLM 3? Raj? Gaz? (4 birds)





1986

M. Stanback

M. formicivorusBLM 3HMR~~March~~~~WINTER BIRDS ARE NOT STAGGERS~~

24 Sept

0800 - 0900. The BLM 3 birds are

spending most of their time in the hollow with the broken tree (just over the saddle from Raj). They are constructing storage holes and storing acorns (+ eating). They are collecting acorns just to the S of this hollow.

I saw a unbanded ♂ on the North side of the hollow (maybe the NOBA ♂ from Raj)

♀ NRON  
MV/LB-DB

(1170)

(♀ 945 at CVI)

hey, she's NOT at CVI♀ WN

(1261)

♂ LB-K/M

(1262)

♂ KWOW

(769)

♀ N/W  
DB/W

(1259)

♀ R/LB-K

(1260)

♂ O/W  
LB-K/M

(1262)

♀ W/LP  
M

(1185)

♀ MW♀ OY  
nLB♀ O-W/LB





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M. Formicivorus

BLM 3

HNHR

(24 Sept) 1415 A couple birds on top of Far Knoll. B/m 1?

\* Group Update \*

These birds at CV1: (supposedly 1089, 945)  
at B/m 3: 769, 989, 1171, 1172, 1185, 1258, 1259, 1260, 1261,  
1262, 1170

19 Nov 1100 Granary has plenty of acorns. But now they  
have 2 granaries — far apart. The lone tree  
in the hollow toward Raj has lotsa acorns —  
and the B/m 3 birds are definitely the owners.  
Not as many acorns in the 2<sup>nd</sup> gran, but still  
alot. I saw ♂ LQ-BLK/M = 1262.





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M. formicivorus

GAZEBO

HNHR

6 April 1025 : At tree w box 328 and gold string where the birds nested in the knot hole last year | <sup>5</sup>7, swallows were seen at the hole entrance.

22 June Checked <sup>86</sup> nest - empty

23 June 1600 Checked 85 nest. 1 (Fresh?) egg

3 July 0800 6 eggs!

7 July 1100 6 eggs

8 July 4 hatchlings, 2 eggs

9 July 5 1 ~~egg~~ eggs 9.0g 7.2g 4.5g \*  
8.9g 5.9g

10 July 5 1

11 July 1215 4 0

29 July 1430 Banded 4 babies (1 was runt)

\* sue says last egg may have been capped by a shell  
11 August 0900 A baby is about to fledge. I think one is already out. ♂ 718 fed twice while I was there

1130 Juv 1266 seen. I think he will be a ♂  
I think I saw 4 Gaz birds down in Raj terr, then they leisurely flew back to Gaz.

14 Aug 0845 - 0935. Watched. No one came to hole.  
Saw red solid on right foot (1266)

24 Sept 0745 ♂ Lite/Mv-LB (1104?)

♂ M (718)  
G/Bk-W

♂ □ (1270)  
K/ROV





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M. formicivorus

CVGR

HNHR

21 March 1100-1300 Power struggle! 10-15 birds?  
At least 4 unbanded ♀. 1079 was not  
unfriendly w BI-Y(N) M/Bk R ♀. At  
one point (actually several) 3 unbanded ♀ seemed  
to jointly control the tree. Also saw 1071,  
~~1072~~, 837, 1187. A "separate" struggle  
is going on in the 2<sup>o</sup> granary - Two  
NOBA ♂♂ and a NOBA ♀ are friendly  
there.

1500 - Caught & banded 2 NOBA ♀ - 1119.

1630 Adult ♂ oriole sighted. Unbanded. Spring!

birds to identify

1) LB-Y (R) ♀

2) BI-Y(N) M/Bk R (1042)

3) ♀ R Bk (L)

(28 March 1500 noticed power struggle)

29 March 0800-1000 Power struggle. At least 2-3  
unbanded birds. About 10 birds involved  
set net. Caught only Blue Yellow(N)/Blue-Yellow(N)  
Mauve/902-23385

Saw: 1079

Black Red ♀ from School Hill West 1042

BI Y(N)/Y (R) 1172 ~~lighter here~~ BLM 3  
(N) M (L)





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M. Stanback

M. formicivorusCVGR

29 March

$$\begin{array}{r} \text{♀ RO(N)/R} \\ \text{P. Green O(N)/R} \end{array}$$

(997)

Varp 5

$$\text{♀ BI Y(N)/M (L)}$$

(1042)

$$\text{♀ Y-O/M (R)}$$

(1040)

0845 captured bird #1068 from PLQE

1030-1200 captured 5 unbanded ♀♀. See Katie's capture records

30 March

0945 ♀ 1040 (sister of 1042) is present  
and an active part of the group  
Power struggle seems to be nearly over  
both sons present ∴ 5 birds here

<sup>1005</sup>  
1000 (counting waka boats) ~~||||~~ ||||

# times 5 birds together ||||

1028 unbanded ♀ in 2° granary. Flew towards 1°

1030 <sup>1079,</sup>  
997, at least 1 unbanded ♀, an unbanded ♂  
in big tree by the tiled gazebo by turn  
in road towards CV1 (call it gaze 2)

1110 drumming at CVGR





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M. formicivorus

CVGR

H/NHA

30 March 1115 997 again seen eating acorns at GAZ 2  
1122 things quiet at GAZ 2; the action  
seems to be just West of the CVGR 2<sup>o</sup>  
granary, though 997 seems to be a fixture  
at GAZ 2

1130 the "family" of 2 NOBA ♂♂ + 1 NOBA  
♀ are still in "residence"

1145  
Just to the S of the 2<sup>o</sup> granary, a NOBA  
♀, a banded ♂ (M/lite-dark on R) and  
1 other bird seem to be a unit (We  
had thought these were GAZ

1150 Bluebird box 220 has banded ♂ + NOBA ♀

1154  
♀ w Red on rite is part of the "group"  
to S of 2<sup>o</sup> granary  
♀ w Red M (L)  
LB R (R)

1200 drumming at 3<sup>o</sup> granary (to SE of 2<sup>o</sup>)  
followed by short chase

1207 more drumming here (NOBA Family?)

1250 drumming at 2<sup>o</sup>



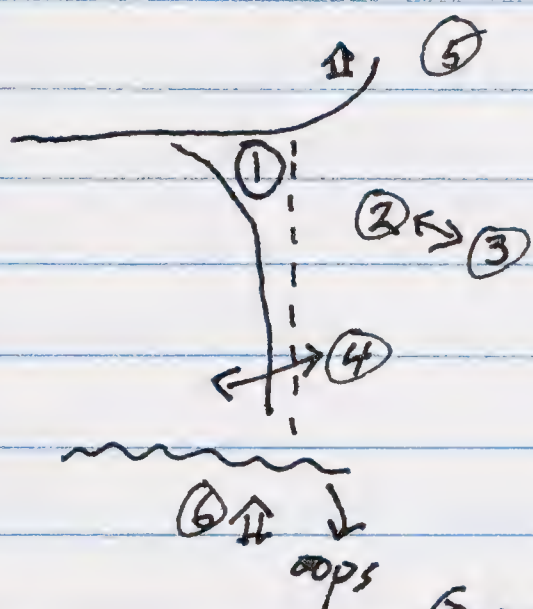


1986

M. Stanback

M. formicivorusCVGRHNHR

30 March 1250 Midway between CVGR - GZBO  
 is a 'group' of birds with 2 NOBA ♀♀,  
 ♀  $\frac{LB/R}{R/M}$ , a ♂ (M/Lite-Dark)



1) CVGR

2) " 2° granary (NOBA)  
(family)

3) 3°

4) halfway group

5) 997 et al

6) GZBO

oops Gazebo is further up than I thought  
 ∴ this is all a CVGR affair

31 March 0940 stopped by. All seemed quiet.

1 April 1030 All quiet. Rana Creek Fence crew  
 was repairing the mess from the fall,  
 ie putting up a new fence, moving (out?)  
 some of the fallen debris. They said they  
 were considering cutting it down for good.  
 We asked that they not, and they agreed.  
 Give 'em a call Walt.

9 April 1600 ♂ into last year's nest!

10 April 1130 Checked nest - empty

11 April 1545 belled to hole - nothing





1986 M. Stanback

M. formicivora

CVGR

HNHR

12 April 1630 bird flushed from last yr's tailed nest hole upon arrival

13 April 1200 no bird at hole (or at 0900)

18 April 1000 no bird at hole

1230 bird in hole

20 April 1130 climbed hole - empty. There's a starling nest 2 feet below the ACW's.

1600 ACW in hole! I climbed to try to terminate starlings but no luck w nooses or tongs.

21 April 1645 A small power struggle! The birds tolerate me near the granary. Lotsa garricks, chasing, some drumming. At least 2 intruders, but I didn't get a chance to ID them; the CVGR birds do a good job of keeping the intruders out of the granary. Chases taking place both to the N and S. The GRAN birds weren't in their granary, but one of them did flush from nest. No one in CVGR nest. I terminated the starling nest.

23 April 1830 Bird at hole. Another nearby. But I walked by have several times today and helloed w/ no luck

24 April Bird in hole

25 April 1430 opened hole - empty - must be egg tossing?

26 April 0615 - 0720: lots of activity at the hole. Both ♂♂ and ♀♀ spent time inside. Didn't see any tossing.



28 1730 5

1996

M. Stanback

M. FormicivorusCVGRHVHR~~26 April 1615 - 1805~~

26 April 1615 - 1805 Mate guarding watch at granary.

1623 837 alone

joined by 1081 who flew in w 1040

1040 sitting alone

♂ away, ♂ back

1640

1040 away and a ♂ follow

1042 arrive w 837

1040 &amp; 1042 sit together

1655

1042 joined by 1081

1040 with 837

1704-1707 1040 & 0Y together  
1081 alone

1712 1040 and 1081 together

1717 ♂, then ♀, then ♂, then ♀ left in this order  
1040 → 1042 (stayed) → then she left

1721 837 above 1042 and 1081 (who are beside e/o)

1722 1042 away, 1081 follow, 837 follow

1042 with 837 in granary

1042 away, 837 stays

1081 directly under 1040

1040 and 1081 leave

1724 empty granary

1731 1081 and 837 arrive, 1081 leaves

1732 837 and 1 other bird in tree (1042)?  
837 attempts mount on 1042? she leaves  
but she stays in granary

1040 with 1081

1739 1081 alone

41 1040 joins 1081

44 both leave

48 1081 and — into granary

52 1081 alone, then away

1040 alone

55 1081 and 1040 (10 min)





1986

M. Stanback

M. FormicivorusCVGRHVHR

28 April 1730. Nest w 5 eggs. No one Flushed.

1 May 1500. No one Flushed. Still only 5 eggs.

7 May 0815. No one responded to hello.

8 May 0845. Bird in hole - checked - no babies yet

9 May 1100. 4 newborns, 1 egg, + fragments. Couldn't reach them to weigh 'em

1645 Cut new door in nest. 5 babies now

10 May 0930

|    |     |
|----|-----|
| LL | 6.8 |
| RL | 7.2 |
| LW | 5.6 |
| RW | 7.2 |
| BK | 6.2 |

11 May 0930 (windy)

|    |      |                 |      |      |      |
|----|------|-----------------|------|------|------|
| LL | 9.2  | <del>WVHR</del> | 13.4 | 17.0 | 21.4 |
| RL | 10.3 | <del>WVHR</del> | 12.1 | 17.8 | 21.2 |
| LW | 8.6  |                 | 10.6 | 16.9 | 20.6 |
| RW | 9.7  |                 | 9.9  | 14.0 | 16.7 |
| B  | 8.5  |                 | 10.0 | 14.8 | 18.9 |

12 May 1000 (windy) 13 May 1000 14 May 0930 

15 May 0945

|    |      |
|----|------|
| LL | 26.0 |
| RL | 26.5 |
| LW | 24.1 |
| RW | 21.2 |
| B  | 21.5 |

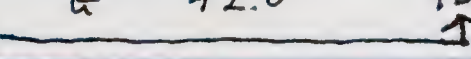
16 May 0900

|                       |             |      |      |
|-----------------------|-------------|------|------|
| LL = BK - B. Pink (N) | = N = 31.2  | 37.2 | 42.2 |
| RL = R                | = R = 29.5  | 38.8 | 43.3 |
| LW = "Y"              | = Y = 31.3  | 37.3 | 43.2 |
| RW = R - W            | = RW = 27.9 | 33.5 | 38.8 |
| B = LG                | = G = 28.1  | 34.8 | 39.9 |

17 May 1100 (hot!) 18 May 1045 

19 May 0730

|    |      |      |
|----|------|------|
| N  | 45.0 | 52.8 |
| R  | 48.2 | 52.0 |
| Y  | 46.5 | 52.0 |
| RW | 43.2 | 48.7 |
| G  | 42.0 | 45.2 |

20 May 0730 





1986

M. Stanback

M. FormicivorusCVGRHNHR

|        |               |    |      |      |      |      |      |      |
|--------|---------------|----|------|------|------|------|------|------|
| 21 May | cool!<br>0730 | N  | 53.1 | 60.7 | 62.7 | 69.2 | 73.9 | 76.9 |
|        |               | R  | 55.6 | 61.3 | 65.7 | 73.9 | 80.4 | 81.3 |
|        |               | Y  | 53.8 | 61.8 | 66.7 | 72.8 | 79.1 | 82.5 |
|        |               | RW | 50.5 | 55.3 | 60.0 | 67.5 | 70.2 | 73.3 |
|        |               | G  | 48.6 | 52.3 | 55.7 | 64.0 | 68.2 | 70.0 |

22 May 0730

23 May 0800?

24 May 0800?

25 May 0900

26 May 1100

27 May 0915

|    |      |      |      |        |
|----|------|------|------|--------|
| N  | 77.6 | 76.4 | 84.0 | (80.0) |
| R  | 80.8 | 79.9 | 86.1 | (77.5) |
| Y  | 83.2 | 82.3 | 88.3 | (80.0) |
| RW | 75.9 | 75.5 | 81.3 | (75.0) |
| G  | 70.3 | 68.0 | 79.9 | (74.0) |

28 May 0900

30 May 1545

Banded before weighing

(wing)





1986

M. Stanback

M. formicivorusCVGRHNHR

22 May [1717-1800] Nest watch and census

~~1081~~ 1081 III  $\leftarrow$  # Feedings in  $\frac{1}{2}$  hr

1042 I

1040 I

837 I  $\leftarrow$  / saw what looked like M/O or M/Y

1081 seems to be the most active feeder!

25 May 1010 - 1110 Nest watch 1 hr.

1042

837 FS

1040

837 FS

1042 FS

1081

837 FS

1042

837 FS

1042

837

1042

1040

1040

1081

1042

1040

28 May 0800 Watched granary for 15 min, there were at most 4 birds there at any one time.

30 May 1545 Banded babies (5)

9 June 1115 ♂ 1079 alone in granary

15 June These birds fly up to F-Troop territory

21 June 1630 Hello - nope

6 Aug 1079 1285 at gran

25 Sept 0915 OLW-ii (1081?) and another bird were up at Raj, then flew to CVGR gran. Has CVGR regained control of Raj proper?0930 MYK and KR seen at Gaz 2. Is this 1079 and 1042. Is Raj dead.





M. Stanback

M. Formicivorus

CVGR

HNHR

4 Nov

1050-1215. Census and granary watch.

Saw 837, 1042, 1079, 10~~8~~<sup>7</sup>81, 1284, 1285

1100: 1042 to granary w/o acorn, begins messing w acorns

1105: 1042 shifts to underside of limb, sits still

1118: 1042 moves to top of branch, sunbathes (head flop, wing droop)

1120: 1079 to granary. 1042 grabs acorn, Flies to 1079.

1079 retreats to Raju, then returns at 1121

1126: 1042 again alone

837 arrives, 7 1284 arrives, 5 birds!

837 works on a storage hole some

1079 sunbathes

1140: 1081 begins working on s.h. works until 1157

1148: 837 building sh.

1151: 837 pulls acorn from nearby hole, tries it in his new hole - doesn't fit, so he leaves w it

\* 1284 'seems' to be DB/DB-Yel (N) on right, not B/BY





1986

M. Stanback

M. Formicivorus

F. Troop

HANHR

~~18 March~~ ~~1815~~

30 March

At least 1 NOBA ♀♀

♀ LB/R  
R/m

♂ m/Lite-Dark

18 April 1815 2 birds seen

19 April 1500 bird inside nest hole - empty

20 April no one in hole

21 April no one in hole

a small "power struggle" at CVGR. Seems to be one or 2 persistent intruders.

23 April 1900 2 birds roost in hole

24 April Walt ambushes 'nest'. Catches 1079

26 April ♂ 1079 not seen during mate guarding watch at CVGR

14 May Bird seen in hole. Didn't check it.

20 May 1900 Rick Flushes 2 birds from hole just before roosting time.





1986

M. Stanback

M. formicivorusF. Troop (Fuck Up)HN/HR

- 22 May 1518 - Nest watch (transcribe tapes)  
 Bird in hole upon arrival (1500) until 1518. 1079 in at 1544  
 1204 entered at 1558 (1069 out at 1555). [1606] 1079 to  
 nest, 1204 leaves
- 0710 - 0940 Roost watch. At 1935 a bird entered.
- 23 May 0745 Climbed - one baby and at least one egg
- 25 May 0910 - 1000 Nest watch. No one came to the hole,  
 though there was a lot of garricking and karviting  
 by what I think was these birds and the RAJN  
 birds.
- 26 May 1115 checked Rajneesh. There was no baby and 2  
 eggs (and also [I think] 2  $\frac{1}{2}$  fragments) → Combine  
 these fragments with the  $\frac{1}{2}$  shell I found  
 under the hole yesterday ∴ does this mean  
 2 babies hatched? (and subsequently died?)  
 I took one of the 2 remaining eggs for  
 analysis. (23.7 x 20.1) (analysis - rotten!)
- 5 June 1120 Hole hello: No one
- 14 June 1615 Bird in hole!
- 15 June Climbed hole. Empty - but there is a lot  
 of (woodpecker?) shit inside that looks fresh (some  
 of it)
- 20 June 1900 Adult ACW in hole
- 21 June 1600 Climbed. Hole is full of fresh ACW shit
- 22 June 1730 Bird sitting near hole. Flew to Raj "granary" w 1-2 birds
- 11 Aug 0945 Flushed bird w R - from nest. Is this breeder ♀?





1986

M. Stanback

M. formicivorus

GRAN RAJN

HNR

18 April 1815 Went to 2<sup>o</sup> granary, the 3 birds flushed from there. Then I went over the fence to the W and S where 2 birds left a snag. Then I went to Rajneesh proper and 7 birds flushed. I watched roosting at the 3 birds at the 2<sup>o</sup> granary. One went in and wouldn't let the other 2 in (nest?). I didn't see where the others roosted. I heard birds at Rajneesh.

19 April 1500 A bird flushed from the hole at the 2<sup>o</sup> granary (actually one did this am as well) Walt showed me CVGR's last yrs nest about 50 m to the S. A bird was inside. He climbed - was empty

1900 At least one bird roosted in this hole. I think it was a bird from the 2<sup>o</sup> granary

20 April Bird in GRAN nest hole. No one in the old CVGR hole to the S.

21 April 1700 Power struggle at CVGR. I checked the GRAN granary, no one there. Though a bird did flush from their nest. CVGR nest

22 April 1600 From last year was w/o a bird opened RAJN nest (GRAN) 4 eggs

23 April 1800 2 birds roosted in CVGR's old hole (1800 Are these the birds at Gazebo II?)





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M. Stanback

M. formicivorus

Rajneesh

HN/HR

- 18 April 1830 7 birds up here!
- 19 April 1030 5 birds here - they seem to be banded! Who are they? They seem to fly not toward BLM 3
- 1500 A bird seen near here - no sex, but like K-BP(N) on lower (and upper) left. Walt says this may be the BLM 1 ♀ I saw at CVKW.
- 20 April 0830 dropped sue off here. She later reported these to be BLM 3 birds
- 22 April opened nest 4 eggs
- 23 April 1800 There were birds at the Gazebo II tree. Who are they? Could it be GRAN birds.

Note: Grande Annex has now been declared to be called Rajneesh.

- 25 April 1430 the birds of Gazebo II do seem to be Rajneesh birds.
- 14 May 1430 There was a bird in CVGR's last yrs nest
- 17 May 1000 Banded 3 babies. See capture records
- 20 May 1930 Rick saw 2 birds in CVGR old nest at roosting
- 3 June 1130 Bird seemed to flush from hole.
- 15 June No one in hole when hello
- 20 June 1900 "
- 22 June 1730 Saw Raj(?) birds over sitting by F-troop nest.
- 25 June 0530 Ambush - caught all 6 birds - shit 1 unbanded ♂ got away.
- 25 July Birds here





1986 M Stanback

M. Formicivorus

Raj HNHR  
11 Aug 0930 I think I saw 4 Gaz birds  
down in Raj terr. (I don't think it  
was the other way around). They flew along  
the old Raj crest just past (N) of the  
saddle w the fallen tree + pond on other  
side. However, a few minutes later  
I flushed a bird from the F troop nest -  
Raj roost hole. It had R on rite foot.  
Is this the F troop breeder ♀?

14 Aug ♀ RON ( )

NOBA ♂ (5244)

O/K-W  
BY(N)/Met (1255)

uh-oh - this is upside down

OKM (1256)

hmm, did I see DG+BP(N)/K-BP  
LG M  
it says here that I did

♀1327 WDK

25 Sept 0900 Several birds here - (no one at F troop)  
they are making forays from the granary  
up toward the BLM 3 saddle. Things I  
might have seen: ? ♂ NO owko, ♂ BO, ♀ BY(N)  
This ♀ sat at the nest hole w an acorn.

♂ olw-: Flew to CVGR, as did another  
bird. Is this 1081? Is Raj dead?

0930 MX BK and BK-R seen at the  
low Gazebo. Is this 1079 + 1042? Is Raj dead?  
(Whats this rot about a power struggle Katy?)





1986

M. Stanback

M. formicivorusCUT MurtHNR

2 April 0855-0955. census. ♂ 966, ♂ 967, urban ♀.

Birds were hanging out in trees up on the knoll above & to the W of the big tree by the fence.

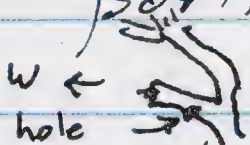
7 April 0855-0905 : watched last yr's nest hole in the lone tree - no action

1021 starling into that nest

1026 lots of activity all am in the 2 trees up from box 233 - starlings were chased from this tree. I suspect a nest

1130 yelled at ↑ the tree - flushed two birds couldn't tell which hole though - and they might have just been inside to get out of the rain. Found a dead pigeon.

8 April 0745-0805 Spied on my suspect hole - ~ bird roosted here last night - its a hole in the basal portion of a snag. From the fence



1030 started watching here again

1041 ♂ ~ Mite (on right) flew to hole,

looked inside. I can't tell whether this was the breeder ♂ or the helper. I decided to cut open the hole. Nothing inside (1130)

1900 Roosted in valley oak to W of sycamore





1986

M. Stanback

M formicivoraEX1 MURFHNHR

- 10 April 1030 Removed new starling nest from last year's nest hole. ANTS. Walt needs to come shoot these starlings.
- 12 April 1640 No one at hole 1 cut open. Hmmm
- 13 April 1145 "
- 18 April 1000 "
- 19 April 1100 3 birds came to hole. One went all the way in - the other 2 watched. All 3 left at the same time (mate guarding)
- 24 April 1600 4 eggs (1 rather new)
- 25 April 1445 cv1 birds seem to be hanging out at the SW end of Dark Hollow Field.
- 28 April 1700 4 eggs
- 7 May 0830 4 babies + egg fragments. Marked bodies
- |            |                             |      |
|------------|-----------------------------|------|
| 3 days old | <del>Measure</del> Left leg | 14.3 |
|            | Right leg                   | 13.1 |
|            | Left wing                   | 9.4  |
|            | right wing                  | 14.3 |
- there is a new honey bee hive in this tree. damn.  
estimate hatching date at 5 May.
- 8 May 0800
- |    |      |
|----|------|
| LL | 18.4 |
| RL | 15.5 |
| LW | 11.0 |
| RW | 16.4 |
- The bees have to go!
- 9 May 0915
- |    |      |
|----|------|
| LL | 20.7 |
| RL | 20.6 |
| LW | 15.3 |
| RW | 20.5 |






1986

M. Stanback

M. Formicivorus

|        | <u>CX1</u>                                                                                                                                                                               | <u>MURF</u>                                                                                                  | <u>HNHR</u> |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------|
| 10 May | 0815                                                                                                                                                                                     | LL 25.5<br>RL 23.9<br>LW 18.2<br>RW 23.2                                                                     |             |
| 11 May | 0900                                                                                                                                                                                     | LL 29.3<br>RL 26.9<br>LW 21.8<br>RW 27.6                                                                     |             |
| 12 May | 0930                                                                                                                                                                                     | LL 33.8<br>RL 31.4<br>LW 24.0<br>RW 32.8                                                                     |             |
| 13 May | 0915                                                                                                                                                                                     | LL 39.0<br>RL 37.4<br>LW 30.7<br>RW 35.8                                                                     |             |
| 14 May | 0830                                                                                                                                                                                     | LL = <del>Yellow</del> Yellow = 43.5<br>RL = L. Pink = 39.9<br>LW = Orange = 31.7<br>RW = Blue = 36.4        |             |
| 15 May | 0920                                                                                                                                                                                     | Y = 49.5    53.3    63.5<br>P = 46.9    50.7    60.3<br>O = 37.3    43.5    52.7<br>B = 45.8    50.9    58.2 |             |
| 16 May | 0745                                                                                                                                                                                     |                          |             |
| 17 May | 0930                                                                                                                                                                                     |                                                                                                              |             |
| 18 May | 0930                                                                                                                                                                                     | Nest Empty. Predated                                                                                         |             |
| 21 May | 0715                                                                                                                                                                                     | Checked nest. Empty                                                                                          |             |
| 22 May | 0715                                                                                                                                                                                     | " "                                                                                                          |             |
| 24 May |                                                                                                                                                                                          | " "                                                                                                          |             |
| 25 May | 0540 - 0700 "Nest watch" and nest search. I thought I might find egg tossing, but no one seemed interested in the hole. I watched for hints but got few. Starling nest in last yrs hole. |                                                                                                              |             |
| 27 May | 0700 - 0900 Looked for nest. No luck. They were drinking from a knot hole.                                                                                                               |                                                                                                              |             |





1986

M. Stanback

M. FormicivorusCVI MURF

HNHR

(27 May) 0800 At one point a ♀ (that seemed to be banded) drank from the knot hole, then flew up to BLM 3 (the nest tree maybe even) Remember, I have noticed CVI birds quite a ways up toward BLM 3. There is a group of birds farther up the knoll from CVI's recent nest. Are these CVI birds?

(28 May) 0800 - 0845 Nest searching again. These ♀♀ are not unbanded. Shit! Always do a nest watch at every nest for a census (before they fail) There are at least 2 ♀♀ here, one has green on left maybe, and ~~the~~ another has R-O(N)/O (for sure) Earlier during this watch I thought I saw MO / O Bk. I saw a ♂ with M / W

29 May 0600 - The birds are interested in a knot-hole in the poison oak tree beside the old nest tree. I don't think they are drinking. 2 ♂♂ and a ♀ were seen to go into it during about 1 min. Their bills didn't seem to be wet, though I did see a bird "smacking" his bill after coming out. At one point there were 5 birds together in the sycamore, but I was chased so I don't know how legit the count is. I saw ♂ 966. ♂ 967, ♀ NO, and ♀ O/LB-DB. Very vocal today. 0745 A bird flew from CVI to BLM 3





1986

M. Stanback

M. Formicivorus~~CVI~~ MURFHIVHR

2 June 0930 Found nest in the limb beside the one with the knothole

4 June 1000 Cut open hole. Shallow nest w 5 new eggs.

CVI → (One of the 9 breeders is 1170 From BLM 3. This explains why the birds fly to BLM 3. Is the "green" ♀ I saw 1055?) when did they arrive? what is the significance of the 4 egg clutch?)

6 June 0930 - 1130 2hr nest (incubation) watch - census.  
See notes. Saw 966, 967, NOBA ♀ 5241.

15 June Loud babies in this nest

19 June roost. Is there a group up the knoll from MURF

27 June 1100 daytime nest ambush - banded ♀

1328 LG - 0 / LG  
BK - P(N) M

1 July 1730 Banded 2 babies here. That's pretty pitiful. They nearly brought off 4 young in the 1<sup>st</sup> nest and they manage only to fledge 2 from 5 eggs this time. Shit, are these the same adults?

11 Aug 1000 saw ♀ (couldn't tell if she was banded) sitting peaceably near a baby. I couldn't tell if this was 1328 by bill. It looked fine - but I was far away

6 July. See CVI notes. The trouble at CVI seems to be overflowing over here, but not too seriously

\* Saw a ♀ with BY





1986

M. Stanback

M. formicivorusCVI (see MURF notes for early history)HN/HR

6 June 1220 - 1330 Tried to census

? LB/W

945?

♀ G/W

♂ DLD

♀  $\frac{n}{BO(n)} \frac{R(n)}{0}$ 

dusky

1170 ?

O LB DB

1170 ?

♂ MWK♀ LBm

945 ?

♂  $\frac{MK}{BWWB}$  ← dark B (fer sure)

1089

↳ #1089 From PLQE

there's a nice hole with the door missing

9 June 1130 <sup>Helloped</sup> checked old hole in big tree. Nothing

14 June 1230 no one in 'hole' when hello

15 June 1600 Some drumming, garriking, chasing here

24 June 1400 Several birds here - couldn't find nest

saw ♀  $\frac{BO(n)}{10}$  3 ♀s? 1 ♂?

25 July 1330 Came by & flushed 2 birds out of the old CVI nest (where limb is ~~where~~) No baby noises heard (either in hole or fledged). There seem to be 3 birds here, including a ♀ w Metal on left and a ♂ with  $\frac{WK}{m}$ . One of the birds flew toward Blm 3. The hole that I flushed them from has a rotted out hole in the bottom, but I don't know if it reaches the nest chamber. Plenty of stored acorns.

29 July Plugged hole in <sup>bottom</sup> nest. Saw no stored acorns.





1986

M. Stanback

M. Formicivorus

C.V.IHNHR

6 Aug

1000 There's a power struggle or coup or something strange afoot over here. Chases, drumming, the following bands:

DB/W

G N ♀

baby Y/BW

♀ M/ROV  
ROV / LG

1170

chased unbanded baby

11 Aug

saw ♀ w Metal♂ LB/M♂ M  
LB-DB

25 Sept

1000 - 1100 Upon arrival 2 birds left <sup>granary</sup>. Shortly after 2 more birds left granary. Then 1 more left granary. Maybe there was some sneaking back -- but I'd say they're at least 3 birds there. Saw ♀ LB-w/m (945)

♂ WOM (positive!) (well, maybe red)♂ WOM  
BWWB← this looks like 1089, but if this WOM is him, it's NOT 1089

♀ 1170 is up at B/m 3

They have alot of acorns stored

Rain!

28 Sept

1630 ♀ LB-LG/M = (945)

♀ LB/M = who is this? 1171? Where is she on the field list?

♀ LB/M = 1171?





1986 M. Stanback

M. formicivorus

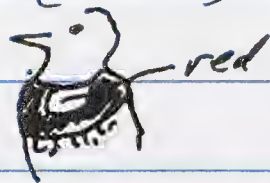
CVKW (Knoll West) or CVette

HNHR

8 April 1200 Decided to see what these guys were up to from where I was sitting at CVI. There are 4-5 birds here that I saw. I saw a bird go in a hole, so I walked up to check it out. There are two close by so I now don't know which one it is. While up there I saw one NOBA ♀ and a ♀ w

BY(N)  
or  
KO(N) / RO(N) on left and O on right  
NO, 997 → Bird 1165 from BLM 1  $\frac{O}{RO(N)/RO(N)}$

7 April 0920-1000 chases, garricks, drumming, but doesn't seem to intense. ♀ w Y on left. A ♂ and ♀ were seen mounting - both birds had red feathers (a lot) on their chests (on the black)



1200 Black Shouldered Kite in Granary

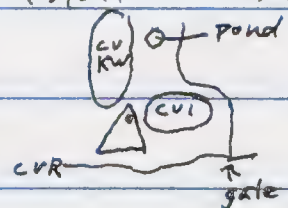
10 April 0730 still lots noise up there

20 April 1030 all quiet up at CVKW; I went down toward the <sup>CV Valley</sup> road end of the knoll where it dumps into a little glade.

There's a pie nest by the dry pond w the wash tub by the tree.

There's a granary tree up the knoll a little way.

There are 3 ACW's there. They showed some








1986

M. Stanback

M. Formicivorus

CVKW or ~~CVKW~~ or CVette

HNHR

(20 April) interest in a low hole just below a low limb (facing W). They seem to be mate guarding 1600: watched them some more ( $\frac{1}{2}$  hr this am,  $\frac{1}{2}$  hr now) They are all unbanded. 2 ♂♂, 1 ♀. They did go to the hole once. Oh yes, they also spend time on the N and S sides of the glen where they live 

29 April 1330 Climbed the 2 holes up on the hill in the knoll snag. Both are duds - not even deep enough.

1700-1730 Watched at CVette for hole action. Saw 4 birds, no hole action.

11 May 1045 checked out (hello) the CVette granary. Lots of good holes





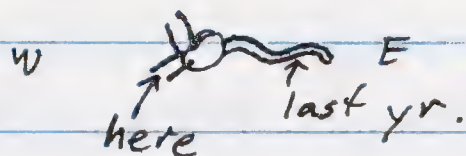
1986 M. Stanback

M. *harmicivorus*

CV2

HNHR

7 April 0910-0945: Watched group from a distance to check for nest. I suspect the tree where they're 2<sup>nd</sup> nest last yr was is the ticket. I suspect a limb on the W side of the trunk (opp of where was last yr)



The cavity which they used last yr seems to be occupied by a family of titmice with hatched young (on 7 April). Actually I'm not sure which hole it is - there are several close to e/o.

8 April 0815-0845 Spied on suspect holes - no action - well actually there was vegetation in the way and birds were there in general area - but helling failed

10-1015. No success w hello. Titmice are nesting near woodpecker holes, but not in them. Its<sup>(tit)</sup> cavity has a smaller entrance.

9 April 1010-1025 watched hole. Nothing - may not be a nest after all.

12 April 1650 checked the tree again. No Flashes.

13 April 1015 Found nest :◀ in that tree.





1986

M. Stanback

M. formicivorusCV2HNHR

18 April 1100 2 birds flushed from hole when I arrived. Cut it open - empty!

20 April 0900 went by. No one in hole. ~~An~~ An Acw flushed low from another part of the tree though

23 April 1615 Bird in hole when I arrived. Climbed Nest with 3 eggs.

28 April 1630 5 eggs. No one flushed

29 April No one flushed when I went by

7 May 1000. 4 babies, 1 egg, egg shell fragments

left wing 4.7 → 4.7

+ right leg 13.5 → 8.8 2 days old

+ right wing 22.2 → 8.7

+ left leg 33.1 → 10.9

estimate hatching date at 5 May

8 May 0830 LL 14.0

RL 11.0

LW 5.9

RW 11.1

new 3.3

9 May 0945 the newest baby was missing (brood reduction)

LL 19.4

RL 14.8

LW 7.2

RW 15.9

10 May 0845 LL 22.7 26.7 30.7  
RL 18.1 21.2 25.3  
LW 6.9 6.9 6.5  
RW 18.4 21.9 25.1

11 May 0830 

12 May ~~0830~~ 1000 





1986

M. Stanback

M. formicivorusCV2HNR

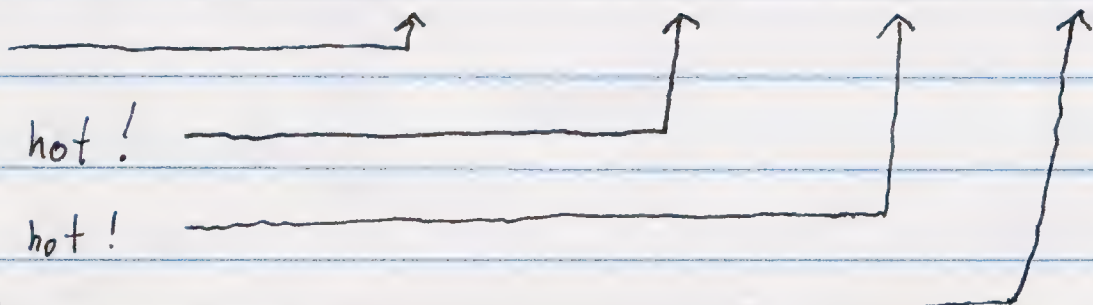
13 May 0940 LL ~~white~~ 38.3  
 RL ~~white~~ 31.6  
 LW ~~white~~ 5.2  
 RW 31.0

14 May 0900 LL = B. Pink = 40.6 = R  
 RL = white = 33.9  
 RW = L. Green = 33.4

15 May 0900 R = 46.6 50.0 60.2 64.7 66.8 68.5  
 W = 39.3 43.2 52.1 58.1 60.5 63.9  
 G = 38.1 42.9 53.0 58.4 59.8 64.5

NOBA

16 May 0715



17 May 1000

hot!

18 May 1000

hot!

19 May 0730?

20 May 0730

21 May 0700

R = 72.5 73.8 77.0 80.0  
 W = 66.9 68.0 71.4 76.8  
 G = 67.1 68.0 71.7 76.5

22 May 0700

23 May

24 May


25 May 0800 Empty

2 June 0830

I have suspicions about last yr's nest hole.

4 June 0800

walked by. No one in last yrs or this yrs nest.

(Actually, there were honeybees in what may have  
 been last yrs nest  dead  
 was this or the top hole last yrs

5 June

1030 - 1110 Looked for hole (wait-watch, then search) Nope.  
 There are at least 3 birds here.

8 June

0915 - 1000

Mv/B-W  
 Mv M

NOBA ♀, NOBA ♂

oriole  $\frac{MY}{DY}$





1986

M. Stanback

M. FormicivorusCV2HVHR

(8 June) Katy says this is probably ♀ <sup>570</sup> ~~1119~~ (record <sup>771, 772</sup> ~~1119~~)  
<sub>Nv L B</sub>  
<sub>Nv M</sub>

9 June 1140 Helloed holes. No luck

|       |        |              |        |
|-------|--------|--------------|--------|
| Note: | Oct    | ♀ 5199       | ♂ 843  |
|       |        | ♀ 1119       | ♂ 959  |
|       |        | ♀ 570        |        |
|       | Feb    | ♀ 5199       | ♂ 843  |
|       |        | ♀ 570        |        |
|       | March  | ♀ 570        | ♂ 843  |
|       |        | ♀ <u>YLG</u> |        |
|       | April  | ♀ 1119       |        |
|       | 16 May |              | ♂ NOBA |
|       | June   | ♀ 5199       | ♂ NOBA |
|       | ♀ 570  |              |        |

14 June 1200 No one around or in holes. I walked 50 yds toward RLM and saw @ 4 birds. They flew toward RLM

1630 An OKCO bird (I think) was at CV2 granary, then flew back to CKCO.

24 June 1415 A bird flushed from near the last yr's nest. Keep an eye on this Katy. The birds are also using the remaining part of the tree that fell on 29 May

27 June 1330 a similar flush as 24 June. Hey WAS THAT A ♂ POWER STRUGGLE I heard for several days after they lost the nest? I had that was mate guarding.



# Summary

The following table shows the results of the experiment conducted on the 10th of June 1902.

Time taken for the first run was 1.2 seconds.

| Run | Time | Distance |
|-----|------|----------|
| 1   | 1.2  | 100      |
| 2   | 1.1  | 100      |
| 3   | 1.3  | 100      |
| 4   | 1.2  | 100      |
| 5   | 1.1  | 100      |

The average time for the five runs was 1.18 seconds.

| Run | Time | Distance |
|-----|------|----------|
| 6   | 1.2  | 100      |
| 7   | 1.1  | 100      |
| 8   | 1.3  | 100      |
| 9   | 1.2  | 100      |
| 10  | 1.1  | 100      |

The average time for the five runs was 1.18 seconds.

| Run | Time | Distance |
|-----|------|----------|
| 11  | 1.2  | 100      |
| 12  | 1.1  | 100      |
| 13  | 1.3  | 100      |
| 14  | 1.2  | 100      |
| 15  | 1.1  | 100      |

The average time for the five runs was 1.18 seconds.

| Run | Time | Distance |
|-----|------|----------|
| 16  | 1.2  | 100      |
| 17  | 1.1  | 100      |
| 18  | 1.3  | 100      |
| 19  | 1.2  | 100      |
| 20  | 1.1  | 100      |

The average time for the five runs was 1.18 seconds.

1986

M Stanback

M. FormicivorusCV 2HVHR

25 July 25 July<sup>1400</sup>. At least 2 birds here - plenty of stored acorns.

6 Aug Roost watch: no one showed up at all  
 Tried to census here, but 2 coopers hawks were hanging out. Two birds were in the fallen (half) tree, but they flew to OKCO

11 Aug 7 Mv/RY, NOBA ♂, NOBA baby,  
 Mv/11, Fuck rapidographs!

25 Sept  
~~14 Aug~~

1500 There are birds here - I saw a NOBA ♂ and a ♀ who didn't want to show her legs. But the wierdest! Over the ridge that lies between CV2 and OKCO there were, upon my arrival at 4:00 at least 6 Lewis Wp flying around in circles, as if they were mobbing or Flycatching, but were doing neither. For 15 min there were birds wheeling about over that small area constantly. They would land, then take off again. After 15 min it fizzled out ~~but~~ and there were no birds to be seen. Then at 4:19 a single LWP flew up, circled a time or so, ~~what~~ flew high (higher than an ACW ever went) and then flew S toward (+ down?) Dark Hol  
 Oh yes, at one point, an ACW got involved in the circling, briefly.





1986

M. Stanback

M. formicivorus

CV 2

HNHR

14 Aug NOBA ♂ and banded ♀ seen. I did some roost watches here - they roost in the gully.

(24 Sept) 1700 There seems to be 3 birds here. NOBA ♂, ♀ 570, and the baby(?) I saw here last month has turned into(?) a NOBA ♀. They are making holes and storing in the broken tree. I did a roost watch. I heard birds in the granary near dark, and then one flew due N from the broken tree. Oh shit, the field list has a NOBA ♀(B). I'm assuming this one's a kid. Ambush!

29 Nov roost (4:55 pm). After (literally) months, birds go  
- 30 Nov into the hole w the ambusher. The tree is up the canyon, on the right side (as you head up) just up & right from the tree which Y's at the base in the center of the gully. The limb is rotten and sticks out horiz towards Hastings. The hole is on the under side. [Note: the other night watching here, both roosting birds (30 sec apart) smacked their bills on the wood and tumbled down before flying back up & into hole.]

2<sup>nd</sup> ambush. New method - jam the telescoping pole into the hole (its easy) and then hold it there using a tripod with "handle" pointing up & into the pole. Unfortunately, Katie was mistaken about which hole the birds went in. Maybe next time. 2 NOBA ♂♂ caught in the canyon ambush. The one with NR was





M. Stanback

M. Formicivorus

CVZ

HVHR

(30 Nov) making "crinkly" sounds with his stomach.  
Really wierd. He also suffered a cut on  
the leg during banding. Minor. Flew off  
fairly well. Neither ♂♂ had tail spots - now I was  
assuming that this group consisted of <sup>(banded)</sup> B♀, B♂,  
♀ kid, ♂ kid, and that I would catch the 2  
kids in the ambush (since 2 flew right in  
and a ♀ (mom?) was freaked out and went  
back to the 1st nest tree. So who these 2 ♂♂s  
are is anyones guess.





1986 M. Stanback

M. formicivorus

DKHW

HPHR

2 April 1030 - 1115. census. Saw ♂ 584. Saw  
a ♀ w Y-LB / M / BLK-G I spotted those  
birds in the 2 DKHW trees. Yesterday  
I saw 3 birds in the riparian area  
immediately to the N.

4 April 1015 - 1220. census. ♂  $\frac{MO}{O}$  (584)  
the ♀ from last time is here again.  
Y-LB / K-LB  
M / D.G-BK is what I see today, but still  
don't know who she is.

The birds use the snag on the knoll to  
the S alot and there is a new hole  
in the snag to the S of it.

♀ LG-O / R-O (N) Left

→ Saw ♀ 1062. There are at least 2 ♂♂ here

record 00817 (598)

Walter says the above mystery bird is 1035  
From OKCO. Katie says the breeder ♀  
From DKHW has been seen at OKCO. There's  
wierdness here, so keep eyes open.

8 April 0900 - 0945. Spied on these birds. They gave  
me a few hints, but no luck. Lotsa holes





1986

M. Stanback

M. formicivorusDark HollowHNR

9 April 1030 - 1200 Watched - hoping for nest hints, got none. (Spent some of this time scoping other groups)

13 April 1100 strolled by. Didn't see a nest.

? Walter 'showed' me last yrs nest in S tree. I watched it for  $\frac{1}{2}$  hr. Nothing

18 April 1200 Activity at last yrs nest in S tree. Either that hole or the one above & to right is the ticket.



19 April 1130 Well it seems to be } this one (the upper one.

1530 Cut it open - 1 fresh egg

23 April 1700 Gopher snake inside! No eggs. Snake about 3 ft long (or more) 118 cm

25 April 1445 Birds went to both the new and the old nest hole nearby. No birds went in - watched only 5 min

28 April 1755 - 1810 watch ed hole - no action

so is 1035 From OKCO the breeder here?

1 May 1530 Birds went into the nest hole

9 May 1000 3 eggs - look rather new, especially 1 of them

15 May 1500 3 eggs - warm



584 MR 210  
1063 8 MRW  
1035 7

1986

M. Stanback

M. FormicivorusDark HollowHNHR26 May 0815 - 1015 Nest watch and census (2 hours!)

0818 584  
1063  
0824 584 FS  
0827 1035 in 10 min  
0838 ♂  
0841 ♂  
1035  
0845 584  
1035  
0850 1063 in 1 min, LD 2 min  
0855 1035  
0856 1035  
59 1035?  
0901 1063  
0901 584

0903 1035  
0910 584  
0912 1063  
0913 1035  
0915 1035  
19 1063  
20 584  
20 1035  
1035 FS  
23 1035  
27 584 1 min  
28 1035  
33 ♂ (clean) Metal  
33 1035  
36 1035  
39 1035  
40 1035  
40 1063  
41 ♂ Metal dirt nit  
43 1035 1 min  
44 584 2 min  
46 1035  
47 ♀  
48 1035  
49 1035  
50 ♂ Metal  
51 1035  
52 1035 4 min  
56 1063 3 min  
59 584  
59 1035  
1001 584 away  
1002 1035  
1005 1035  
1005 ♂ Metal  
1005 1035

| Bird | # Visits | # FS |
|------|----------|------|
| 584  | 10       | 1    |
| 1035 | 27       | 1    |
| 1063 | 7        | 2    |
| ♂    | 6        |      |
| ♀    |          |      |
|      | 49       |      |

8 June Banded babies (1100)

1306 Blue on L forehead  
1307 Red center "  
1308 Blue on R "





1986

M. Stanback

M. FormicivorusDark HollowHNHR

Note: Oct ♀ 695 ♂ 584  
 ♀ 1062 ♂ 1063  
 1061  
 1065

Jan ♂ 1063

Feb ♀ 1035 ♂ 584  
 ♀ 1062 ♂ 1063

April ♀ 1035

June ♀ 1035 ♂ 584  
 ♂ 1063

16 June baby 1306 Found dead in nest hole

24 June 1345 No one to hole when hello

24 Sept 1445  $\overline{WK/BP-W(N)} = 1307$

26 Sept saw 584, 1035

19 Nov 1330 - 1430. Census. At least 4 birds here, 2 ♂♂  
 and 2 ♀♀. I wasn't very close, but these were  
 the bands I thought I saw: Who are these?

♀  $\frac{WK}{MK}$  (♀  $\overline{MK}$ )

♂  $\frac{MO}{OMV}$  584

♂  $\frac{WG}{M}$

♀  $\frac{WM}{OMV}$  1062? (♀  $\overline{WM}$ )

♂  $\frac{MK}{W-K/O}$  1307

♂  $\frac{MW}{WG}$  1063

♀  $\frac{MK}{WG}$  (♀  $\overline{MK?}$ )

♀  $\frac{W&K}{\overline{W&K}}$

15 pigs at Far Knoll at 1415. A couple chases here at DKHW  
 but I don't know if it was intruders or what.





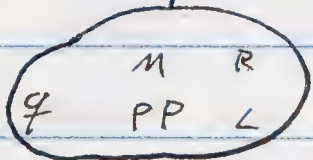
1986

M. Stanback

M. formicivorus\*OKCOHNHR

20 March 0815 : After sitting in blind for 15 min w no luck, got out - birds. Sound equipment suck. Watched granary (later moved down - see below) saw : 5200, 886, 1160 (which is a ♀)  
↳ unbanded ♀

695 From DKHW

0930  at top of big sycamore along creek toward CV2. Has this been where much of the earlier noise was taking place? Yes, more birds here and in the big spindly oak about 50 yds toward OKCO from it (also along creek) There is still some chasing going on here. ~~Birds~~ Birds are flying back & forth between here & CV2. ? Saw ♀ 695 (Breeder From DKHW)

\* Note: 2 magpies in a tree. One flew down to a lower limb and attacked something. A band tailed pigeon fell out of the tree & foundered on the ground where it lay. The magpies didn't do anything, but maybe I was too close. I went over to check the pigeon - lower mandible broken, mouth gummed up, rotten breath, 1 eye completely gummed over, the other 1/2 so. I moved the



Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the matter of the ... and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,  
Your obedient servant,  
[Signature]

I am, Sir, very respectfully,  
Your obedient servant,  
[Signature]

1986 M. Stanback

M. formicivorus

~~OKCO~~  
~~OKCO~~

HNHR

(20 March) pigeon further from where I was watching  
wickerbills to see if pies would attack it.  
However, the pigeon not long after took  
flight and blundered into low growth further  
away. It had only 2 or 3 tail feathers.  
Most of its left primaries missing.

9 April 1030 Nest! in same hole as last year.  
A ♀ had her head out.

10 April 0745 arrive. ♂ in nest hole. Start census

K=blk

|   |                             |     |                         |
|---|-----------------------------|-----|-------------------------|
| ♀ | <u>now</u>                  | 696 | } also here in<br>10/85 |
| ♂ | <u>oyo?</u><br><u>RYM</u> ✓ | 886 |                         |
| ♂ | <u>nyk</u><br><u>OKY</u>    | 849 |                         |
| ♀ | <u>owr-</u>                 | 696 |                         |

NOBA ♂ chased by now ♀

♂ OK-Y

♂ LP-LB/M 1034

♀ BW(N)/K-LB 1160

♂ (N)M

♂ OLB M 1158? or 886 I saw this guy only once, and  
I think it wasn't 886

stop census 1000. Who is that ♀? Thank Ford  
that these birds weren't "geeked" off.

They seem to be incubating!

13 April 0930 7 eggs  
29 April nest active





1986

M. Stanback

M. FormicivorusOKCOHNHR

30 April 0850-1150. Nest watch. See nest watch notes.

Saw these birds: 849, 695, 696, 886, 1034.

9 May 1500 Banded 6 babies here. 1 was a runt, but he wasn't terribly small - Do a watch here in 1 week to see if anyone feeds him (Uh oh, screwed up. Forgot to write down bands for that last baby 14 May)

15 May 0800  $\frac{DG-0/38}{BWN/R}$  painted stripe on right forehead 81.5 (56.5)

$\frac{DB/RWN}{DB-LB/39}$  center paint 75.1 (49.5)

$\frac{RON/W.M.}{40/R}$  paint left and right 73.3 (41.5)

$\frac{41/BWN}{0-LG/DB}$  all blue 80.3 (56.0)

$\frac{R-B/42}{0/BPN}$  runt - no paint 57.7 (28.0)

\*  $\frac{43/BYN}{BK-Y/LB}$  left paint 78.7 (48.0)

[the above weights and (wing lengths) are from 9 May]

2 June 0800 There was a bird in the nest hole, but it kept putting its head in & out (not like an adult on eggs) It left the hole, landed a few feet away, and then went back into the hole. Could this be the runt?

9 June 1145 saw ♂ 1034

14 June No one in hole when hello

24 "

"





1986

M. Stanback

M. FormicivorusOKCOHVHR

Note: Oct ♀ 696 ♂ 886 (saw 2 ♀, 5 ♂)  
 ♂ 1160

Feb ♀ 1035

March ♀ 695 ♂ 1159  
 ♀ 696  
 ♀ (1119)?

June ♀ 695 ♂ 849  
 ♀ 696 ♂ 886  
 ♀ 1160 ♂ 1034  
 ♂ 1159

24 Sept afternoon. There seems to be some confusion here. I'm pretty sure I saw a NOBA baby ("♂"). Does this mean we missed a 2<sup>nd</sup> nest here? Or is this the NOBA from CV2 (ie, not a ♀ after all). The OKCO birds are hanging out very close to CV2, getting acorns from a tree. I say I saw 886, 1159, and maybe 695  
 ♂ DLM = 1159

♂ ow(N)BWO = 1159?

♂ owM (definitely) = 886

Problem bird ♂ RM or ♂ om (is this 886?)

26 Sept 1300-1500. Saw 1034, 696, 1160, 695, 886, 1159  
 Saw 2 babies F 1242, F 1245

19 Nov 1330 doesn't have all that many acorns.





1986 M. Stanback

M. formicivorus

OUTBACK

HNHR

13 April 1015-1040 Looked for nest esp at old nest. No luck.

20 April 1000, Climbed nest. Empty except for some acorn shells. The keyhole was very loose though, so I Fixed it

29 April 1500-1600 Watched for nest. Don't seem to be in the old hole. These birds are the CUKE birds. I saw ♂ with what looked like D-Blue-White (N) / D-Blue-White (N) ← # 1164 from 1800?  
M

2 June 0900 A bird (maybe a starling) went to and left the hole from last yr. There's one piece of grass in the doorway. Check this.

4 June 0900 Yes, it's starlings. I climbed it & pulled out & tossed 3 well grown babies

29 June 1330 Hey, somethings afoot - there are alot of birds in the no-mans-land tween OUTBK and Ron Mamma. Whats up? Got nesthole data. Empty





1986 M. Stanback

M. formicivorus

PHF

HNHR

7 April 0815 Arrive - 4 birds here - helloed hole  
but no luck

0820 Bird to hole, but not in

0840 Bird into hole

11 April 1430 helloed to hole, bird inside came to hole

20 April 1500 "

29 April 1700 - 1730 Watched hole - no one came !!

1 May 1630 - 1645 "

8 May 1600 Opened hole. No babys. Hole was in  
bad shape (door very loose - I fixed it)

22 May hello. No one looked out.

27 May 0645 hello. "

5 June 1000 "





1986

M. Stanback

M. Formicivorus

~~W. W. W.~~ (Forsaken Ridge)

H. N. H. R.

- 11 May 1015 5 eggs, Flushed a bird. A little damp inside (I should have dapped it better). I put the ladder in the tree opposite the hole. Nest Box 340 empty
- 31 May After a 2 hr watch (no visits) I weighed babies. 68.5, 76.5, 67.0. I removed the latter for other experiments
- 1 June 0800 weighed the 2 babies in the nest. They were 71.7 and 77.5 respectively - so I guess all is well.
- 3 June 0730 babies Fine
- 4 June 0715 Put the 3<sup>rd</sup> baby that's been in the lab in the nest.
- 29 June No new eggs - a bit of a mouse nest.

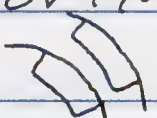




1986

M. Stanback

M. formicivorusPIPEHNHR

- 6 April 0900 : 2 birds flushed from granary
- 12 April 1530 Found nest. New hole in freshly broken snag - near top - about 12 ft up.
- 13 April Cut open hole. A ♂ was in the hole when I arrived. The hole is as yet incomplete - very rotten. I cut the hole thru a thin portion. I need to reinforce it with wire.
-  I also cut my finger but good - ouch.
- 24 April 1030 I reinforced the hole w duct tape & wire. It was empty - looked like little work had been done since last time. Birds are probably nesting in the aviary. I didn't see any in the upper holes - I did see a suspicious flush from slightly lower.
- 28 April ~~0715~~ 3 birds here. ~~At~~ 1-2 roosted in a hole where the birds flushed near the other day. Vocalizations - wouldn't let a third (?) bird in.
- 29 April 0930 cut open hole. 1 egg.
- 7 May 1000 3 eggs (they looked newish at a peeper glance)
- 19 May 1400 There must be more than one breeding ♀ here (or maybe they lost the 1st clutch) - whatever - you learned your lesson - always mark eggs! There were 4 babies. They looked about 2 days old <sup>at most</sup>. One was tiny and dehydrated. I don't think it will make it. There were egg fragments, but no whole eggs - so I estimate clutch size as 4. String broke - new one sux - fix next time
- 9 June 1000 Banded 3 babies





1986

M. Stanback

M. FormicivorusPIPEHNHR

9 June 1000 Banded 3 babies

1316 Red Forehead

1317 Blue "

1318 unmarked "

21 June 1500 Baby still in nest

3 July Pipeline birds are hanging out at Blm 1 ! See notes!

25 July 1600 Added 400 valley oak acorns to the artificial granary here. There have not been any birds seen here in awhile. The granary was empty (totally) when I climbed the tree.

26 July 0800-0900 Well, well. I guess that even if a group abandons its territory, it keeps tabs on it as well. There were 3 birds here upon arrival (the ub ♀, babies 1316 + 1317)

The ub ♂ showed up around 0830. was present til I left at 0900. There were 3 intruders. One was a ♂ with

\* M/Bk-W(N). It sat quietly at the periphery and left after about 10 min. Another\* intruder was a ♂ w M/Bk-O or maybeM/Bk-Pink. He landed in the granary and was chased away by the ub ♀. A third

intruder (unidentified) landed beside the

2 babies and was chased by them. In general

the Pipe birds seemed quite in control and at home.

They were not removing many of my acorns (+ those removed were restored)

\* ♂ 1183 a pipe bird - not seen since April

\* Baby 1315 from gate (but with adult eyes)





1986 M. Stanback

M. Formicivorus

PIPE

HNHR

29 July 0500 Ambush! Caught + banded the UB ♀  
(was 5239, now 1362). Also caught  
babies 1316, 1317, 1318, "helper" 1183.  
So where is the UB ♂?!





1986 M. Starback

M. formicivorus

WARP 5

HVHR

29 March 0800-1000 ♀ 997 seen at CVGR power struggle

30 March 1030 ♀ 997 at CVGR power struggle

12 April 1600 Looked for nest - no luck

2 June 1700-1800 Sat in blind waiting for nest. No action at last yr's hole. The bees are there though.





1986

M. stanback

M. formicivorus

WOLF

HNHR

12 April 1545 Found nest where they were roosting this fall in a (dying?) sycamore snag towards Road 1.

19 April A bird was in the hole

24 April 1130 5 eggs (1 new)

22 June Climbed nest. Pretty sure it was empty

3 kids





1986 M. Stanback

M. Formicivorus

Finch

HNHR

- 4 June 1800 4 eggs in nest
- 13 June 1545 3 babies - about 2+ days old. One is big, another rather smaller, and a third is a dehydrated very small runt. I removed the runt for experiments
- 15 June Runt dead. (even though he was beginning to defecate)
- 1 July Banded 2 babies (banded 3 at RI today)
- 25 July roost: Katy reports roosting in the nest hole, but that maybe the new 99s aren't quite settled, as some drumming was heard prior to roosting.
- 26 July 0915 There seems to be adequate amounts of stored acorns in some parts of the granary (hmm, would addition of some more do anything - like cause a new nest?)
- 13 Aug ♂ RB Metal (613)  
♂ R ( )





1986 M. Stanback

M. formicivorus

Mac Flat

#NHR

28 April 1030 Opened last yr's nest in live oak on E side of road. Empty.

20 May 1400 4 babies  
RW 26.1  
LW 19.3  
RL ~~24.1~~ 19.6  
LL 26.1

I removed the

latter two babies

and put them in 1500 to pinch hit. (1 First took them to the lab and fed them. After feeding they weighed 19.8 and 27.5 respectively.)

[See Plague notes. I removed the other two babies for use in a PLQE experiment and put the PLQE 'runt' in their place. On 23 May I put the Mac Flat birds from 1500 back into Mac Flat and removed the PLQE baby.

26 May 1530 Put the 2 babies from the lab back into the nest.

2 June 1500 - 1700 Census & nest watch (2 hr)

| <u>Bird</u> | <u># Feedings</u> |
|-------------|-------------------|
|-------------|-------------------|

|     |   |
|-----|---|
| 988 | 2 |
|-----|---|

|      |   |
|------|---|
| 1073 | 3 |
|------|---|

|      |   |
|------|---|
| 1074 | 3 |
|------|---|

|      |   |
|------|---|
| 1082 | 4 |
|------|---|

|      |   |
|------|---|
| NOID | 5 |
|------|---|

4 June 1730 Banded 4 babies

18 June baby in hole

21 June hole empty. Got nest-hole data





1986 M. Stanback

M. formicivorus

SCHL W

HNVNR

21 March 1100-1300 ~~at 1040 and~~ ♀ 1042 was friendly w ♂ 1079 from CVGR at the power struggle there. She seemed to be a dominant bird there

29 March 0800-1000. ♀ 1040 joined ♀ 1042 at CVGR

30 March 0945 - 1040 and 1042 at CVGR





1986

M. Stanback

M. Formicivorus

ARF, too

HNHR

9 July 1000 Found baby 1283 dead (minus head)  
right by the nest tree. Ron proposes that  
a pygmy owl probably got it, since they love  
to eat brains and nothing else.





1986

M. Stanback

M. formicivorusBKOKHNHR

3 April 1500 - 1600. Birds here very shy. Saw several but identified only 1189  
 ♀  $\frac{GW}{(M)LB-W-LP}$

31 March 1545 ♂ 1006 was seen at the "interaction" between AI & FAAR

11 April 0945 Found nest - same as last year. Census

♂  $\frac{K}{RW}$

426

♂  $\frac{MvY}{Lite \& Dark}$

1009

♀ M

♀  $\frac{MKY}{YKY}$

1004

♂ KO

♂  $\frac{RW}{WR}$

1006

♂  $\frac{LP}{R}$

744

♀  $\frac{Y/RY(N)}{(N)}$

1190

1045 6 eggs

← (27 April, 6 babies)

22 April 1230 5(?) large babies. Eyes still closed, but feather tracts showing clearly. Tail Feathers this big. I didn't have anywhere to put babies while counting, but I'm pretty sure it was five. They should be bandable in one week. I suggest early banding - once they're big they will climb above entrance.







1986

M. Stanback

M. FormicivorusBKOKHNHR

26 April

ditto

27 April

@ 1030 - 1330 Nest watch

28 April

1100 - 1400

"

. During these

watches I saw the following birds.

426, 774, 1004, 1006, 1007, 1009, 1189, 1190

26 April

1400 Removed a baby from upper Arn 2.

I chose a baby that had a sib of the same size. The baby weighed  $34.8 - .2 = \underline{34.6}$ 

I put this baby into BKOK at 1430

27 April

1430 After the watch I removed this baby

from BKOK's nest. It was at the back

of the nest - behind 6 (six) healthy large

BKOK babies. It had its eyes open (it did not when I removed it yesterday.) It

weighed  $39.2 - .2 = \underline{39.0}$ . The 'same'

size sib back in the UAZ nest, where I returned this bébé at 1500 weighed only

36.5 and did not have open eyes. Being a runt in BKOK isn't so bad.

See Sues notes for 26 and 27 April at UAZ, but be wary, for she had no top on the blind.

1324 ♀ 568 from A1 came to BKOK's nest hole, but was chased away. She looked inside

2 May

1330 - 1430 Nest watch. See data sheets.

1530. Banded 6 babies - see banding records





1986

M. Stanback

M. formicivorus

BKOK

HNHR

2 July

1730

Banded

babies

remove  
2:00

enter 2:30

34.8





1986

M. Starback

M formicivorusArnold 1HNR

31 March 1015 - 1140. Census. Saw 100, 568, 505, and 1021.

1530 - 1555 Strange doings round bluebird box 251 (at the snag to the South of Arn 1, across from Fanarnold. Birds flying about, some chasing, very little vocalization. I didn't need a blind (but they weren't oblivious of me)  
Saw 2 unbanded ♀♀, 1 unbanded ♂

♂ MR → 100 (AI)

♂ Y ~~100 (AI)~~

♀ DB M 1023 (FA)

♂ MD B was chased 1038 (SOBO)

♂ RWR on both legs 1006 BKOK

♂ BWB 1016 KOUT

BLK M 1023 ?

♂ Y LB both 1127 KOUT

♂ BLK LB 1038? 629? 1020? 1140?

BLK B

Whats going on? A power struggle?? A budding?

3 April 1400 One again behind AI just across from FAAR.

♂ LB-DB/LB

♂ W/r

(100)

♂ RWR

nest searching in late April - no luck





1986

M. Stanback

M. formicivorus

Arnold 1

HNHR

- 23 April 1430-1500 They seem to be hanging out in the 'woods' to the N of the 'main area'.
- 27 April 1324 9 568 From A1 looked inside the nest at BKOK, but was chased away.
- 3 May 1500 Saw a bird<sup>90</sup> in last year's nest hole. I helloed; it Flushed
- 1630 Climbed it. Took it apart (what a bitch) I peeped but found no eggs - I searched with my hand but found no eggs - its a cavern, and its damp. I gave up and came down.
- 7 May Walter found eggs here.



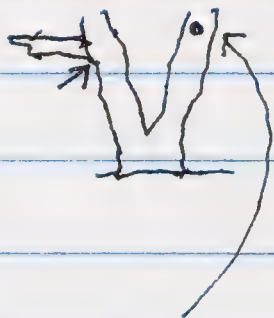


1986 M. Stanback

M. formicivorus

KOUT

HNHR

- 31 March 1345 Flushed 2 birds from granary  
1545 : 1016 and 1017 were seen at the  
"interaction" in the area between A1 and  
FAAR. Lotsa birds there - some chasing -  
very little vocalizing.
- 22 April 1100 - 1200 Spied for nest. The most likely  
hole (I hate rapidographs!) is in the burned  
out trunk. (looking from the E  
Wrong - see Katie's notes 
- 23 April 1330 4 five-day old babies
- 7 May 1330 Sue says things are very quiet here, with  
lots of brooding. Checked hole quickly, at least  
two large bandable babies
- 7 May Banded 5 big babies
- 23 June hear babies in same hole
- 30 June 1330 banded 3 babies. Nesthole data on this + 2 other holes
- 27 July 1500 Granary still contains lots of acorns





1986

M. Stanback

M. Formicivorus

Arnold Schwarzenegger

HNHR

23 June Climbed nest. Empty I think (how's that)

17 July 1530 Saw babies 1279 and 1280 at the nest tree. This tree has some, but rather few, storage holes, but they are all empty. I guess these guys are lucky the golden & BKOK are ripening.





1986 M. Stanback

M. formicivorus

LAMB

HNHR

3) March 1350-1450. Attempted census. No luck. Heard birds, but not where I could spot them. Move blind at 1455. Stayed in new spot til 1515. Quit

3 April 1100-1300. Looks like a power struggle. I saw some unband peripheral birds (very few) but none in the main fray.

Continual chasing in the trees just N of the guano. 5 tolerate e/o. 7 drum

♂ OR

♂  $\frac{W-B/O}{BWM}$

♂ no?

♀  $\overline{m}$  lite

♂  $\overline{OM}$ ?

$\overline{OWN}$ ?

♂  $\frac{MR}{B-L/B}$

$\overline{DB-LB DB}$

♂  $\overline{BKM}$

♂  $\overline{KBK}$

♂  $\overline{RLBM}$

♂  $\overline{LB WLB}$ ?

♂  $\overline{YOMV}$

$\overline{MBO}$

♂  $\overline{MR}$

♀  $\overline{M}$

♂  $\overline{OB}$

♂  $\overline{LB WLB}$

♂  $\overline{LBM}$

♀  $\overline{PLB}$

$\overline{OBM}$

♂  $\overline{OLB}$

♂  $\overline{YLBQ}$

♀  $\overline{BWO}$  drum

♂  $\overline{DB LB DB}$

$\overline{WO}$  or  $\overline{WMV}$

♂  $\overline{LB KM}$

♂  $\overline{WOMV}$

$\overline{LO}$

♂  $\overline{KLBK}$

1020 A1

679 A1

1019 A1

1021

1030? Lamb

1021

1030





1986 M. Stanback

M. formicivorus

LAMB

HNHR

(3 April) So, birds seen were 916, 1028, 679, 1019, 1020, 1021, plus the confusion from the previous page. Once again, it looked sort of like a power struggle with lotsa chasing and vocalization but there ~~were~~ were few real fights. The core group interacting were all LAMB birds, with an occasional intruder coming in from the periphery (quite a few peripheral birds). Walter says its mate guarding + the aftermath of a power struggle.

3 May 1530 Flushed a bird from the tree where last years nest was, but didnt see anyone in a hole. KOUT birds are hanging out very near this tree. I climbed up to where the main granary is. 6 birds here - mostly interested in acorns - gave me a few hints but I check 'em out next time.

7 May 1400 Found nest. In same hole as last yr (the obvious hole in the nice live oak just up from KOUT. 3 three-day old nestlings (one is a runt)

28 May 1000 only 2 babies banded here at Schwartz

23 June Nest empty (climbed)

16 Nov 1000 - 1240 census 2 ♀♀, 1 was 1028 (her mate - W looks like LB-W) Also saw 1309, 1311. 1309 is male, 1311 is male. A good many acorns in granary, none in holes in live tree. A ♂ seen going toward A1





1986 M. Stanback

M. formicivora

FAAR

3 April

1030

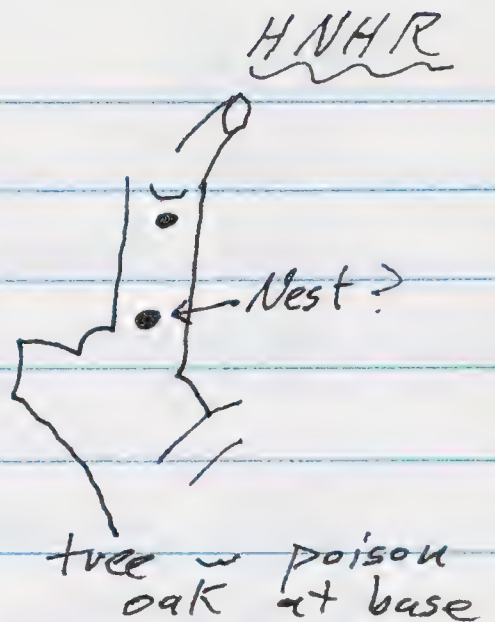
♀ OR  
MR

♂ KM

♂ LB-w/LB-w

♀ DL DL  
O

K=black



↳ this ♀ went into the hole. At least 3 birds were seen going into the hole.

1325 ♀ WK-WW to hole. ♂ inside stuck head out

1357 ♀ left w big wood chip in bill  
♂ dark-lite removed chip

∴ 834, 1023, 1024

but the list says 1023 is a ♀, I say ♂  
Well, the list was wrong.

11 April 0930 Helloed hole - no one home

● 1130 ♂ into hole

22 April 1030 No one Flushed From the new nest that Walter found. Climbed it - Found 3 eggs. Hmmm

30 June Nest hole empty. Got nest hole data

27 July afternoon. Saw 1023, 1024, 1098, 1250 at nest-tree granary. They have few stores left here, but were eating new BKOK (?) acorns.  
I also saw a baby gorta in the ~~robbers~~ ~~robbers~~ ~~land~~





1986

M. Stanback

M. Formicivorus

FAAR

HNHR

(27 July) between KOUT, FAAR, and A1. I really have a hunch this was a FAAR baby, but its bands were, I think O-LB/Bk-W(N)  
R/M

I also saw 6 birds leave a tree in this area (and I think they moved eventually to FAAR. Sorry this is confusing, but....





1986

M. Stanback

M. Formicivorus

Upper Arnold 2

HNHR

- 26 April 1400 Removed baby (34.6 g, eyes closed) and added to BKOK's nest. See BKOK notes
- 27 April 1500 Put this baby (now 39.0, eyes open) back in with its sibs. It's 'same' size sib from yesterday weighs only 36.5. See Sue's NA2 nest watch notes - but beware - she didn't have a roof on the blind - so the birds were wary.
- 8 May 1200 Banded and bled 5 babies. The baby that spent a day in BKOK's is the biggest (He is the one with the white band) I banded (but didn't bleed) the runt. He weighed @ 25 g while his sisters + bros weighed @ 70. Walter said he was dead meat so he took him. (I have my doubts - I mean, if he lived this long...)
- 30 June heard babies. Climbed 85 hole + other for nest hole data
- 2 July Banded 3 babies - 1 was runt





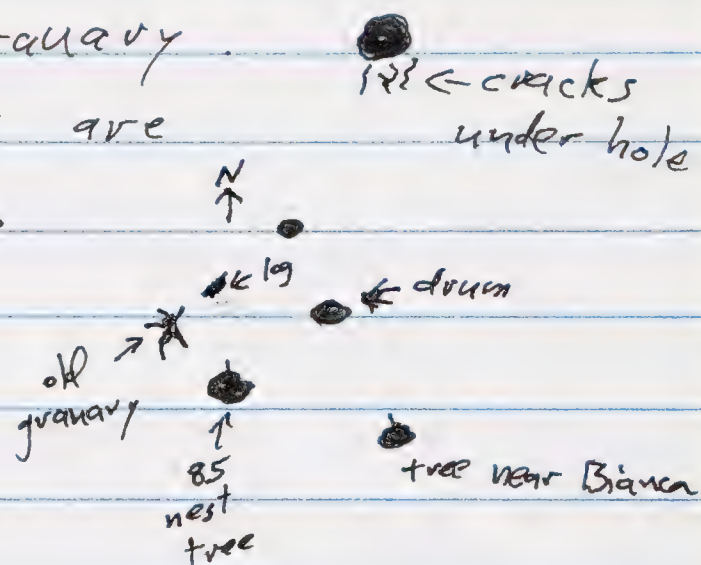
1986 M. Stanback

M. formicivorus

Lower Arnold 2

HNHR

31 March 1145 - 1300 census. Saw an unbanded ♀, another ♀ (band status unk), ♂ 611, ♂ 782, ♂ 1116. An unbanded ♀ went to (not in) a hole in the top part of the main trunk of the old granary. Hole was N facing. Birds are using the following trees →



♂ 1116 drummed at →

11 April 1120 flushed a bird suspiciously near a new hole  
1140 ditto - I'm willing to call this a nest  
saw ♂ dark M who is this?

23 June Climbed nest - empty.

27 July afternoon: quite a few acorns still left in the granary





1986 M. Stenback

M. formicivorus

Bianca

HNR

23 April 1230 Cut open hole 4 Four-five day old nestlings.

8 May 1330 started setting up. BEES! Stinging, chasing. Rescued most of the gear. Except the rope.

2 July checked last years hole (nest hole data)





1986

M. Stanback

M. formicivorus

Aviary

H/V/H/R

31 March

1800 Watched roosting - very foggy

1840 roosting ~~at~~ occurred immediately after one bird karrit. All birds apparently went into the box. (Foggy)

1 April ~~at~~ 1848 Terry roosted (clear)

22 April put in 2 fake eggs at 0745. Were tossed by afternoon (Terry was very curious about the eggs)

24 April put in 2 fake eggs 0700. Watched til 0750 Terry looked in a few times was all. (Were tossed later)

(mid-March) 1300 begin aviary watch

1325 Terry to hole

1327 a waka, a scuffle between Terry and a ♀ at the hole, both enter box, take turns sticking head out (mostly Terry w head out)

1335 some vocalizations inside box

1345 Terry out, vocalizes (♀ stays inside)

1349 ♀ out, Terry & ♀ sit near e/o & preen

1403 Terry waka & moves away

1407 Terry Flies, wake, to floor to get acorn, goes to hole, to ♀ that was in the hole, she moves, he plays w acorn



903333

















